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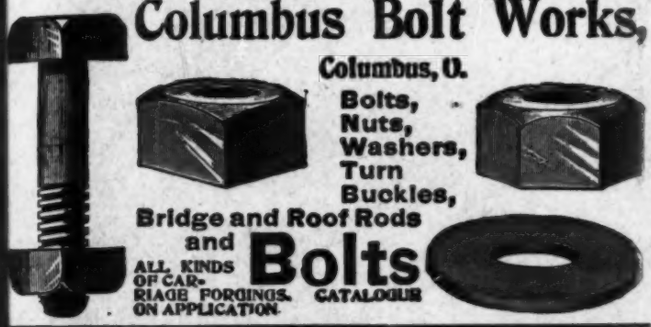
The American Artisan

THE HARDWARE RECORD

Volume 44—No. 16. CHICAGO, OCTOBER 18, 1902. $2.00 Per Year.

Columbus Bolt Works,

Columbus, O.



Bolts, Nuts, Washers, Turn Buckles, Bridge and Roof Rods and **Bolts**

ALL KINDS OF CARRIAGE FORGINGS. ON APPLICATION. CATALOGUE

PURE ASPHALT "SAMPSON BRAND" ROOFING

Never Dries Out or Cracks. Planet Brand Tarred Ready Roofing, Slaters' Felt, Building Papers, Roofing Cements, Paints, Etc. WRITE US FOR PRICES.

J. L. PERKINS & CO., 235 Lake St., CHICAGO

INDEPENDENT STOVE PIPE RADIATORS.

Don't Buy Radiators Without Learning About the INDEPENDENT for 1902.

INDEPENDENT REGISTER CO.
CLEVELAND, O.

ATLAS BOLT & SCREW CO.
CLEVELAND, O.

We make a full line of
Stove Bolts, Stove Rods,
Machine Screws,
Pointed Pins,
Threaded Wire,
Rivets,

Special Bolts,
Mica Bolts,
Cold Pressed Nuts.

AMERICAN SEAL STOVE PUTTY

Odorless—Never Cracks—Never Crumbles—Never Falls out. Makes tight joints, and prevents the escape of gas or ashes.

ASBESTOS FURNACE CEMENT

Bakes hard as the iron itself—Strictly Fireproof—Perfect Non-conductor

Try a sample order of either of the above and be convinced of their superiority. If you are not satisfied return the goods at our expense. Put up in any size package from a pound can to an 800 pound barrel. Insist on having AMERICAN SEAL. Every package bears above trade mark

Manufactured by
THE WM. CONNORS PAINT MFG. CO.
TROY, N. Y.
Western Agents: J. L. PERKINS & CO., 235 LAKE St., CHICAGO, ILL.
STOCKHOFF SUPPLY CO., ST. LOUIS, MO.

BRADLEY SHELF BRACKETS.

Strong, Light and All Right.
ATLAS MFG. CO., New Haven, Ct.

E. J. JOHNSON & CO.,
38 PARK ROW, NEW YORK,
Producers of
ROOFING SLATE
Slate Blackboards. Write for delivered prices.

Black Diamond Files and Rasps.

PERFECT—ALWAYS

Twelve Medals Awarded

At International Expositions.

G. & H. BARNETT CO.,
Black Diamond File Works, PHILADELPHIA, PA.

Nicholson File Co.

GENERAL OFFICES: PROVIDENCE, R. I., U.S.A.

Manufacturers of

FILES and RASPS

NICHOLSON, ARCADE, GREAT WESTERN, EAGLE, "X. F."
KERNEY & FOOT, AMERICAN, McCLELLAN, J. B. SMITH, GOLD MEDAL.

THIS SPACE FOR SALE
Inquire of Owner
Daniel Stern, 69 Dearborn St.
CHICAGO

BOILERS AND RADIATORS

A Postal Card from you will bring valuable, complete information in regard to the best, most comprehensive, strictly modern line of these goods.

WRITE US TODAY.
New York, Boston, Philadelphia, St. Louis, Buffalo, Minneapolis, Denver, Detroit, London.

AMERICAN RADIATOR COMPANY
Lake and Dearborn Sts., CHICAGO.

THE SCARCITY OF COAL

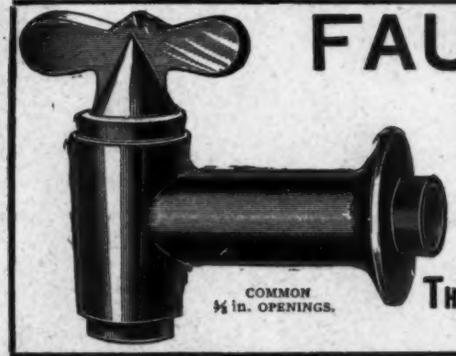
makes the householder's heating problem doubly hard to solve this season. We want to have you send to us and let us tell you how

The "Columbia"

OUR NEW PORTABLE BOILER

Actually Will Save One-Quarter of Your Fuel Bill, while giving you the most perfect comfort you have ever enjoyed. This boiler has been thoroughly tested and found to be perfect in every respect.

VANCE BOILER WORKS, Geneva, N. Y.
JOHN S. KANE, 91 DEARBORN STREET, CHICAGO.



FAUCETS.

Beer
Milk Can
Oil Can
Cream Separator,
of Various Sizes and Styles.
MF'D. BY
THE CLARK NOVELTY CO.
ROCHESTER, N. Y.

COMMON ⅝ in. OPENINGS.

"Eagle" Brand Copper Rivets and Burrs.

STANDARD FOR QUALITY. (Lake Superior Copper.)
—MANUFACTURED BY—
THE PLUME & ATWOOD MFG. CO.,
29 Murray St., NEW YORK. 196 Lake St., CHICAGO, ILL.

THE NULITE VAPOR GAS LAMPS

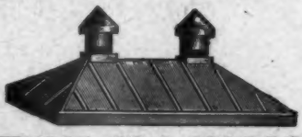
For Home, Store and Street.
The Nearest Approach to Sunlight and Almost as Cheap.
ARC ILLUMINATORS 750 CANDLE POWER. 7 HOURS TWO CENTS.
Make your stores light as day. A Hardware house writes us:
"We like your lamps so well we are now working nights instead of days."
We also manufacture TABLE LAMPS, WALL LAMPS, CHANDELIERS, STREET LAMPS, Etc. 100 Candle Power seven hours ONE CENT. No wicks. No Smoke. No Odor. Absolutely safe. THEY SELL AT SIGHT. Exclusive territory to good agents. Write for catalogue and prices.
CHICAGO SOLAR LIGHT CO., Dept. 9. CHICAGO.

"TABASCO" WATER HEATERS

All Steel, Self-Feed Shaking Grate
FOR
Small Residences, Green Houses, Flats, Hotels, Baptistries, Bath Houses, any place a supply of hot water is needed.

Send for Catalog.

KEWANEE BOILER COMPANY
KEWANEE, ILL.
CHICAGO STORE: 167-169 E. Lake St. CHICAGO.



"THE ILLINOIS"

METALLIC SKYLIGHTS

Are known in every State. Have stood the test for years. Are made in 10 styles and 500 sizes. Complete Skylight, Cornice and Finial Catalogue mailed free. We are prepared to furnish ribbed skylight glass at very reasonable prices.

J. H. JONES, Mfr.,
Lock Box 33. STREATOR, ILL.

The Champion Hot Water Combination Heaters

They Fit Any Furnace

Base section when used without ring sections.

Ring Section

These Heaters are made in five sizes diameter, and from 100 to 700 square feet radiation capacity.
Will heat those cold rooms or an addition to the building. Will increase the capacity of any furnace. Are cheaper than coils and will do more work.
Write for new circular. Manufactured by

FRANK D. STOLZ
115 Lake Street CHICAGO, ILL.

J. R. West, Gas City, Ind., writes: "Please discontinue ad. for Tinner, as I am overwhelmed with applicants, and have had a man at work some time."

SMITH'S

LITTLE GIANT
CIRCULAR GIANT
MALTESE GIANT

Can be used in any furnace and will heat your cold rooms.
THEY HAVE NO JOINTS

...Send for Catalogue...

CHARLES SMITH COMPANY
122 LAKE STREET, CHICAGO

GOLD COIN

Wood Hot=Blast Ventilator

FOR WOOD ONLY.

A Revelation in Wood-Burner Construction.

COMPARE THE FIRE-POT WITH ANY OTHER HEATER.

THE PERFECT HOT-BLAST AND LARGE VENTILATING FLUES ARE EXCEPTIONALLY STRONG FEATURES, ...

Superior to Anything Ever Produced for Burning Wood.

THEY ARE INDESTRUCTIBLE.
ONE-PIECE FIRE POT.
LARGE FEED DOOR.
WITH OR WITHOUT ASH PAN.
HANDSOME NICKEL TRIMMINGS.
A MARVEL FOR ECONOMY.
THE CHAMPION OF WOOD HEATERS.
GUARANTEED AIR-TIGHT.

Two Sizes. On Plain Base
Wood Burned in Main Bottom.

No. 267, takes 22-inch wood. No. 268, takes 24-inch wood

One Size. On Plain Base.
With Register, Grate and Ash Pan.

No. 280, takes 22-inch wood.

Chicago Stove Works,

Blue Island Ave. and Twenty=Second St.,

CHICAGO.

There Are Other Indians

"Lo, the poor Indian, whose untutored mind,"
Instinctively knows where THE BEST he'll find,
Seeks out a WHITE'S STOVE and exclaims "heap good!
For burning lignite, hard coal, soft coal, wood,
Or any other thing that fire will burn,"
Full soon this simple lesson he doth learn.
So, from his humble home, at Mountain View,
He sallies forth in search of something new.
To Sohn's he wends his way and there he sees
The very thing he knows his "squaw" will please;
For here a White's Stove quick doth catch his eye,
His "wampum" he yields up this stove to buy.

THE FOLLOWING LETTER EXPLAINS ITSELF:

CUTLERY AND AMMUNITION. STOVES AND STOVE FURNITURE.

SOHN HARDWARE CO.

WHITES STOVES & RANGES THE FUEL SAVERS

FARM IMPLEMENTS

WIRE AND NAILS
SHELF HARDWARE

BUGGIES AND HARNESS
CHAMPION MOWERS AND BINDERS

MOUNTAIN VIEW, OKLAHOMA, 9/30, 1902.

THOS. WHITE STOVE CO., Quincy, Ill.

Gentlemen:--Pardon us, but we sent you, by mail, one pair of Indian moccasins. We were showing a White's stove and a burly, big, buck Indian came in and wanted to tell what a heap good stove it was, as he had one. He was wearing these moccasins, and we told him that if he would let us have them, we would send them to the man who made his stove. This seemed to tickle him very much, and he took off the moccasins and gave them to us.

Respectfully,
SOHN HARDWARE CO.

WHITE'S STOVES & RANGES THE FUEL SAVERS

A Complete Line of C

THOMAS WH

QUINCY,

WHITE'S STOVES AND RANGES

White's Poplar

is a finely fitted and mounted cheap Oak Stove that will meet any competition.

White's Oak

with base cast in one piece is the very best Oak Stove on the market.

White's Poplar.
Nos. 12, 14, 16, 18.

Our Fortieth Annual Catalogue is just Out Why not Send for One?

White's Oak.
Nos. 14, 16, 18, 20.

e of Cooks and Heaters.

HITE STOVE CO.

. ILLINOIS

Van's

Pat. Improved Wrought Steel Portable

Range

For HOTELS, RESTAURANTS, PUBLIC INSTITUTIONS, BOARDING HOUSES and PRIVATE FAMILIES.

All Kinds of Hotel Implements for Culinary Purposes.

Manufactured and For Sale by

The John Van Range Co.

419 Elm and
410, 412, 414 & 416 Home Sts.
CINCINNATI, OHIO

DON'T LET "THE TAIL GO WITH THE HIDE."

If You Can't Get Fuel to Fit Your Stoves—Get Stoves to Fit the Fuel

The Necessities of Life Always Sell.

THE JUNIOR CINDERELLA OAK

Burns any kind of coal, and takes long wood. Well made and good looking. See the cut. Four sizes, 10, 11, 12 and 13 inch fire pots. The largest one costs less than $7.00 f. o. b. almost anywhere.

THE FOREST CINDERELLA AIR TIGHT.

For Wood Only—See Cut.

Keeps fire for 24 hours, will last longer than you will. Has high cast linings. Top and end feed. Sold at prices that compete with common stoves.

OAKLAND AND ALLIANCE BOX STOVES.

8 sizes, 18 to 38 inch, smooth and heavy—Competing prices.

GAS HEATERS for artificial and natural gas.

CIRCULARS just out showing our new line.

THE PITTSBURGH STOVE & RANGE CO., - - PITTSBURGH.

Western Agency: W. D. SAGER, Michigan Ave., Chicago, Ill.

Queer Quiet Quito

That indolent Ecuadorian city on the Equator has all the heat and all the light its non-working inhabitants need. In this country there is an enormous demand in every community for heat and light and profit in supplying that want.

The Combination Gas Machine and Mixing Regulator.

gives better service than that of the gas companies at one-quarter the expense. The trade should send us names of householders.

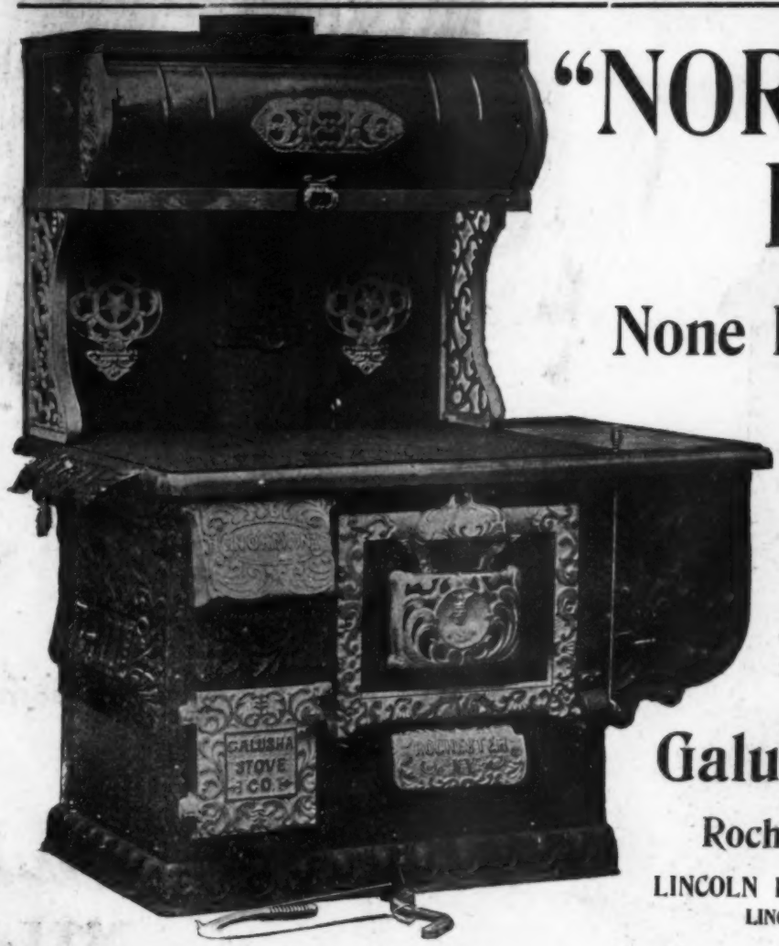
The Bolton Hot Water Heater

is the most efficient, and economical hot water heater in the market. It is made right. It works right and the price is right.

Our literature will do the rest.

It will pay you to investigate.

Detroit Heating & Lighting Co., Detroit, Mich.



"NORMAN" RANGES

None Better Made

Send for our Catalogue for 1902 and learn why "Norman" Steel Ranges are the best. Just out.

Galusha Stove Co.,

Rochester, N. Y., Makers

LINCOLN HARDWARE CO.,
LINCOLN, NEB., Western Agents.

STEWART
STEEL RANGES

With Polished Steel Bodies

With Japanned Bodies

High Grade Ranges
Medium Grade Ranges
Popular Priced Ranges
Low Priced Ranges

STEW

Coal Hot Blasts
Wood Hot
Oa
Junior Oal

Send for our Handsome Supplem nta

The **FULLER-W**
MILWAUKE

FOR

HARD COAL

FOR

SOFT COAL

FOR

WOOD

Four Complete Lines
ENTIRELY NEW

Handsome Well Made
Durable
Perfect in Operation
and Easy to Sell

WART

asts
Hot Blasts
Oak Hot Blasts
al Hot Blasts

plementary Catalogue of New Goods

R-WARREN CO.
UKEE, WIS.

SPECIAL OFFER

To Get 100 New Agencies Quickly We Will Give

80% and 10% off on Registers

When Accompanied with an Order for One or More of Our Furnaces.

We Manufacture the { BEST, MOST DURABLE, MOST ECONOMICAL, EASIEST SET UP } Line of Furnaces Made and Our Prices Are Right.

SEND FOR CATALOGUE AND DISCOUNTS.

THE

Fox Furnace Company

CLEVELAND, OHIO

FOUNDRIES—ELYRIA, OHIO.

NEW YORK
106-108 Beekman Street

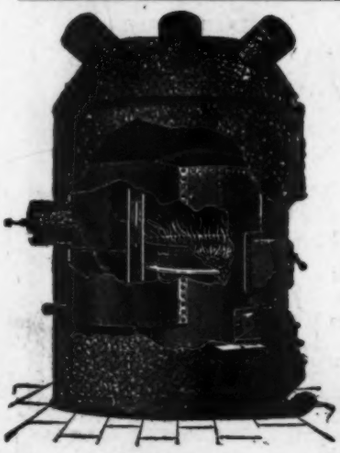
CHICAGO
33 Dearborn Street

BOSTON
24 India Square

IMMEDIATELY

Upon Receipt of Your Order
We Can Make Shipment of
Either SUPERIOR Furnaces
or UTICA Heaters

UTICA HEATER CO. UTICA, N. Y.



Weir Furnace.

Weir ALL STEEL GAS AND SOOT CONSUMING **Furnace.**

The Heaviest Steel Furnace Made.

Absolutely gas and dust tight.
A great heat producer, but a fuel saver.

MADE IN TWELVE SIZES.

"The Handy Furnace Pipe"

The saving of labor in putting it up really makes it the cheapest hot air pipe on the market.

Manufactured by

Meyer Furnace Co.

Send for Catalogue. **PEORIA, ILL.**

Handy Pipe.

EMPEROR FURNACES

For Wood

SIMPLE SAFE DURABLE

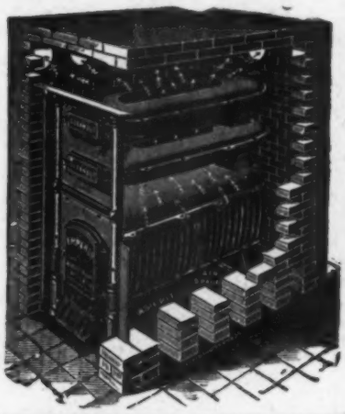
The Best and Cheapest Line of Wood Furnaces

FURNISHED FOR EITHER BRICK OR GALVANIZED IRON CASING.

Send for Catalogue.

Bergstrom Bros. Co.

NEENAH, WIS.



CLARK'S CELEBRATED UNDER-FEED FURNACE.

Is the best heater on the market for burning the cheaper grades of slack and nut coal.

Every part of this furnace is made with great care, and is very strong and durable.

The feeding device is hung oscillating.
The radiator is on the top.
The entire furnace is cast iron.
It has but three joints.
It is a comparatively smokeless furnace.
The grate does not shake but revolves.

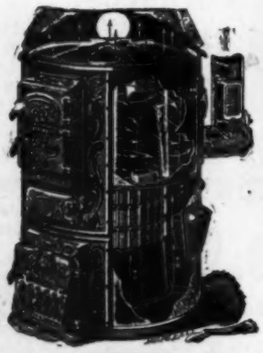
WRITE FOR CATALOGUE

W. A. CLARK & CO.

35 PIKE STREET :: :: :: COVINGTON, KY.

OUR SALES ARE LARGER THAN EVER

Largest Variety.
Latest Improvements.



FURNACE

HEATING

Lowest Prices.
Most Reliable and Economical.

STEAM HEATER

APPARATUS

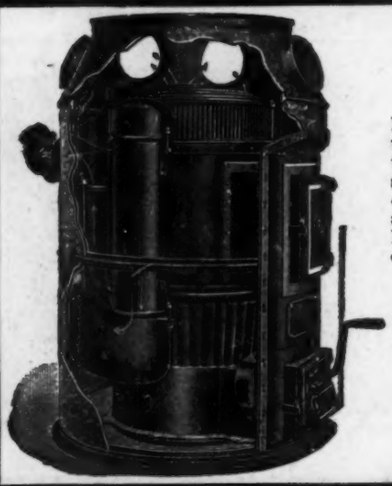
FURNACES, HOT WATER, STEAM AND COMBINATION HEATERS

A Postal Card will bring you full descriptive Catalogs, Price Lists and Discounts.

The BOYNTON FURNACE CO.

207-209 Water St., NEW YORK. 147-149 Lake St., CHICAGO

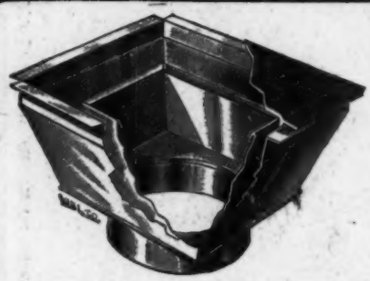
WHY



handle the single size furnace made by the small manufacturer and turn away trade daily who desire a larger or a smaller furnace, or one burning some other kind of fuel when you can secure an agency for the **FLORAL CITY** line, which embraces furnaces for any class of work or any kind of fuel.

Monroe Foundry & Furnace Co.

MONROE, MICH.



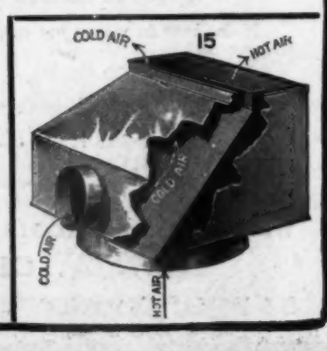
ONE FACT outweighs a thousand claims. IT IS A FACT we manufacture

THE BEST HOT AIR PIPE

on the market and ANOTHER that our prices are as low as any competing line.

IT IS A FACT we have many imitators, which is sure proof of the value of our pipes.

WE HAVE MORE FACTS in our Descriptive Catalogue, and will be glad to mail you one. Address,



SAFETY FURNACE PIPE COMPANY

11 E. Atwater Street, - - - DETROIT, MICH.

I can hold my hand over my chimney. No waste heat. I us a Rochester Radiator and save half the fuel.

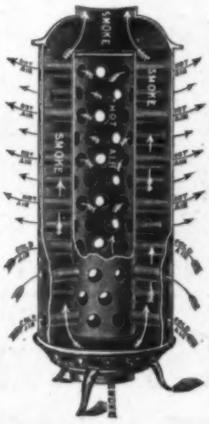
The greatest leak in household economy is the loss of heat up the chimney. This was supposed to be unavo ' 'le until the

Rochester Radiator

was invented; now it is cheaply and thoroughly controlled by the many cross tubes. Dealers find an ever-growing trade. Why not put in a stock and get up a boom in your town.

Rochester Radiator Co.

100 Furnace Street, Rochester, N. Y.



A FIRE WITHOUT COAL

Is what you can have by using

MUELLER Wood Furnaces

We make Furnaces and Boilers in all Styles, for all Kinds of Fuel.

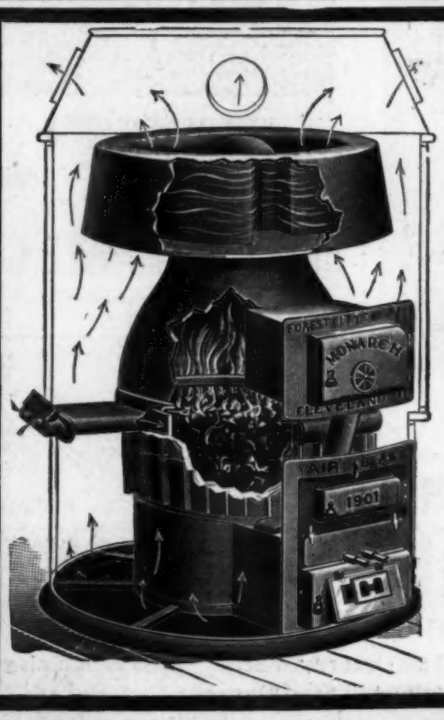
Write for Our Catalogue and Prices

EVERYTHING IN THE HEATING LINE

ESTABLISHED 1857

L. J. MUELLER FURNACE CO.

191 REED STREET, MILWAUKEE, WIS.



SOFT COAL

is burned with cleanliness and economy in

Monarch Air-Blast Furnace

which is made especially for this kind of fuel. Ample room is allowed in all joints for expansion.

SEND FOR CATALOGUE

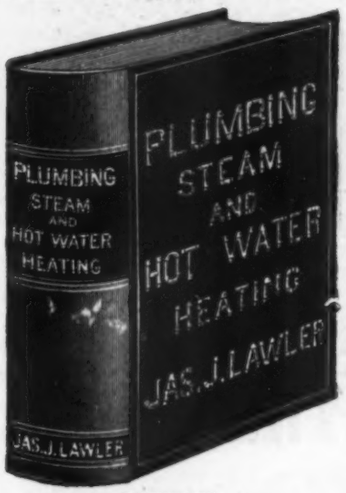
THE FOREST CITY F'DRY. & MFG. CO.

CLEVELAND, O.

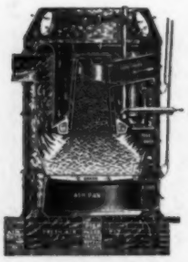
Modern Sanitary Plumbing

Steam and Hot Water Heating

An Encyclopedia of Practical Plumbing. By JAMES J. LAWLER. 400 pages, large octavo. Size 8x9 inches. Price $5.00.



FOR SALE BY
DANIEL STERN,
69 Dearborn Street. CHICAGO.



Bust the Coal Trust

Why pay from $8 to $10 per ton for Hard Coal to heat your Homes?

The Bryce Self-Feeding Furnace

Will give **better** results with less trouble on coal costing from $2 to $3 per ton.

Write for Catalogue to Toledo, Ohio.

THE BRYCE HEATING AND VENTILATING CO.

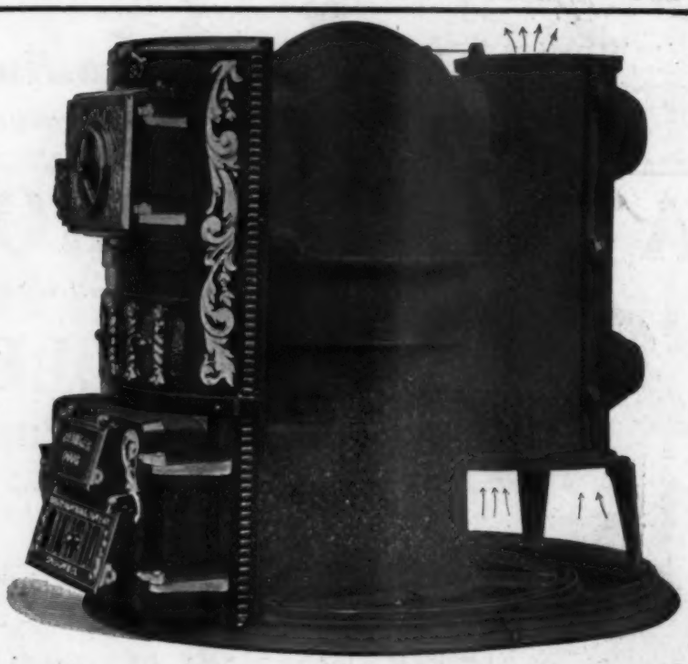
Crown Furnace

LOW DOWN TYPE.
MADE IN 4 SIZES.

It has an extremely large amount of radiation for the size of the fire pot used. This furnace can be cleaned with the greatest facility.

It is made with smoke collar attachment and gas-burning arrangement when soft coal is used.

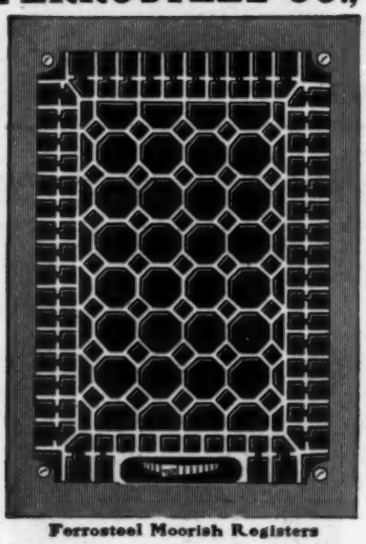
The furnace throughout is made extremely heavy and will stand severe usage.



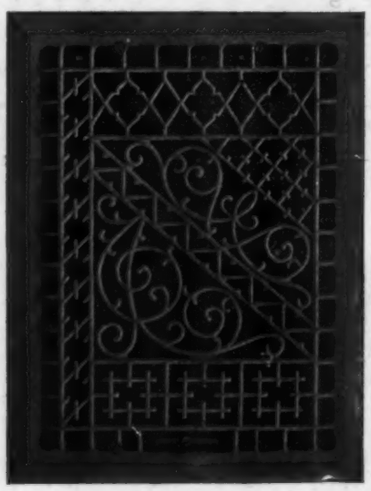
March-Brownback Stove Co.

POTTSTOWN, PA.

FERROSTEEL CO., CLEVELAND, OHIO



Ferrosteel Moorish Registers

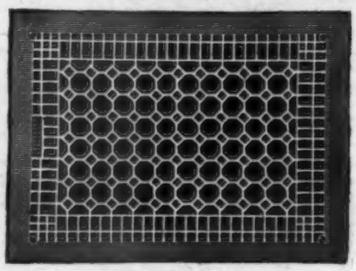


Ferrosteel New Convex

STANDARDS OF COMPARISON

All Sizes and Finishes. Immediate Shipment. Easiest Terms. Lowest Prices.

FERROSTEEL CO., CLEVELAND, OHIO



WE MAKE RIGHT PRICES AND PROMPT SHIPMENTS

All Sizes — All Styles of Finish

Quality and Finish Unexcelled

HENRY & SCHEIBLE CO.

6-8-10 Long Street
CLEVELAND, O.

L. SHIREMAN,
Springfield, O., writes:
"I answered an advertisement I saw in THE AMERICAN ARTISAN and got a good job. I can't do without your paper."

THE NEILL STOVE MFG. COMPANY,

PORTSMOUTH, OHIO.

Make the Best Line of COAL and WOOD COOKING and HEATING Stoves to Sell. Send for Catalogue and Prices. See our 1902 New Oak and Arlington Steel Range.

The Model Stove Truck is Out of Sight when Under a Stove.

IS ALL STEEL, HAS ONLY ONE ADJUSTMENT, IS PRACTICALLY INDESTRUCTIBLE.

We offer to take back and refund money, if after a month's trial, the MODEL is not satisfactory.

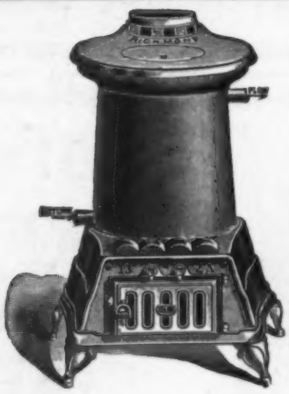
SEND FOR CIRCULAR AND PRICE,

THE S. M. HOWES COMPANY
BOSTON, MASS.

BRAND STOVE CO.

We make largest line of cooking and heating apparatus, cast cooks, cast ranges, steel cooks, steel ranges, hotel outfits, heating stoves, furnaces, hot water and steam heaters. Send for catalogue.

MILWAUKEE, WIS.



RICHMOND

Tank Heaters & Laundry Stoves

None Better Made

BUY one
and TRY one

Send for our 1902 Catalogue and PRICES ALSO

THE RICHMOND CO., Norwich, Conn.

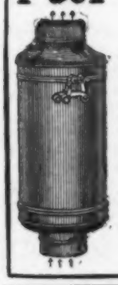
New York, 738 Park Row Bldg. Philadelphia, 18-24 So. 7th Street. Pittsburg, 210 Ferguson Bldg
Chicago, Chicago H. & S. Co. St. Louis, Rumsey & Sikemeier

Champion & Marquart Steel Ranges

possess every feature of genuine merit known to modern steel range construction and have one feature found in no other range on the market in the shape of an additional flue, which is below the main heating flue, and conducts the air through the ash pit to the combustion chamber.

CHAMPION STEEL RANGE CO.
CLEVELAND, - OHIO

BURTON'S
Fuel Economizer



Attached to a stove pipe saves more fuel and radiates more heat than any other device.

No Troublesome Tubes

W. J. BURTON & CO., Mfrs.
DETROIT, MICH.

It Will Pay You

to illustrate your advertisements in your local papers. A sheet of comic advertising cuts sent on application.

These cuts are furnished with catchlines showing their application to the hardware, stove and tinners' trades.

ADDRESS

Daniel Stern,
69 Dearborn St.
CHICAGO.

BUY THE **BLACK KID STOVE POLISH**

AND DON'T PAY FOR IT IF NOT THE BEST YOU EVER USED.

FIVE POUND CANS---65 CENTS EACH.

TRY IT IF YOU WANT SOMETHING EXTRA FINE FOR YOUR SAMPLE STOVES

BLACK KID NICKEL PLATE STOVE POLISH CO., MANUFACTURERS, CHICAGO.

There's Only One

steel range a dealer can handle on which he can make an argument both as regards PRICE and QUALITY that is the

WILLARD STEEL RANGE

This range sells on its merits at a price that places it within the reach of all.

Wm. G. Willard, Mfr.

619-621 N. Fourth St., ST. LOUIS, MO.

COMMERCIAL LAW. COLLECTIONS.

THE AMERICAN ARTISAN AGENCY

LAW AND COLLECTION DEPARTMENT OF

THE AMERICAN ARTISAN,

UNDER MANAGEMENT AND PERSONAL SUPERVISION OF

RALPH F. STERN, Atty.

69 Dearborn Street, CHICAGO

To-day is the time to attend to your past-due accounts. Let us help you.

We have a thoroughly organized Collection Department. Collections made anywhere.

Full reports furnished and remittance made the same day collection is made. Careful attention guaranteed in each case.

Rates reasonable and no charge where no collection is made.

No membership fee.

Reliable attorneys in every city and town. Claims prosecuted without litigation whenever possible. Long distance telephone in office.

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Babcock & Wilcox Co.,
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And any National Bank in Chicago.

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69 Dearborn St., CHICAGO

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O-RIB-O
Galvanized Pail.

O-RIB-O King.

O-RIB-O
Galvanized Tub.

THE PRESENT SENSATION IN THE METAL WARE TRADE.

Buy either direct or of Jobbers. Patented and made solely by

BRISCOE MFG. CO. (THE O-RIB-O PEOPLE) **DETROIT, MICH.**

Stoves **Heaters**

Patterns

OF ALL KINDS

Modern Work **Promptness**

Pennsylvania Artistic Pattern Works

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Steel Ranges **Furnaces**

COMMON SENSE

CIRCULATOR AND RADIATOR.

This heater is so simple in construction that any person who has any knowledge of the principles of heating can readily see the natural advantages it has over others. It does not obstruct the draft. It is easily cleaned out or repaired when necessary. It produces a circulation unequaled by any other article of the kind. It sells itself to all who understand that the true principle of heating is by circulation and not by radiation. It takes the place of a joint of pipe. The 6-in. is 10½-in. in diameter and the 7-in. is 12½-in. It has no equal as a practical fuel saving device and the price so small that no person can afford to use a stove or furnace without one. Send for particulars.

A. C. SELLECK,
755-757 W. Madison St., Chicago, Ill.

The AEOLIPYLE

SAVES 25% IN COAL.

Increases heat. Keeps even temperature night and day.
Prevents escape of coal gas. Pays for itself every winter.

WRITE FOR ILLUSTRATED PAMPHLET.

The Aeolipyle Co., 237 Water St., N. Y.

Tel. 1875 JOHN. Liberal Discount to the Trade.

Established 1874.

The largest and most reliable **Foundry Supply House** in the world.

THE

S. Obermayer Co.,

CINCINNATI, OHIO,
CHICAGO, ILL.

manufacturers

"Everything You Need in Your Foundry."

Importers and refiners
PLUMBAGO GRAPHITE.
Catalog Sent on Application.

M. Hosterman & Son, Marshfield, Wis., write--

"You may take our ad. out of THE ARTISAN as we have bought a kit of tools. We received 8 or 10 replies to the ad. and think your paper all right."

Advertising is the root of all money.

ROUND OAK
Standard of America

While CAST RANGES
generally have been
greatly overshadowed
by the Steel range
(of which class
we make the best one known)
Still —
we want those merchants
who have faith and belief
in the economy — durability
and long-lived efficiency
of that class of
MISUNDERSTOODS ! !
to know — that
ROUND OAK CAST RANGES
have steadily gained a place
in the "understandings"
of many Round Oak customers
and are gaining more and more
every day.
If you do not know
how good we make and fit
these ranges, you ought to !
Let us mail catalogue.

ESTATE OF P. D. BECKWITH

Makers of Good Goods only. DOWAGIAC, MICH.

Rogers & Wells - Chi - FRANK B. SWICH

ESTABLISHED 1880.

THE AMERICAN ARTISAN & HARDWARE RECORD

Representative of the Stove, Tin, Hardware, Heating and Ventilating Interests.

PUBLISHED EVERY SATURDAY.

Terms of Subscription in the United States, their Possessions, and Canada, (invariably in advance): One Year, Postage Paid, $2.00.
In Foreign Countries, Except Canada, One Year, Postage Paid, $4.00.

Address all Letters, communications and remittances to

DANIEL STERN, Publisher and Proprietor,
69 DEARBORN STREET, CHICAGO, ILL.

Entered at the Chicago Post Office as Second Class Matter.

This Paper is a Member of the Chicago Trade Press Association.

CHICAGO, OCTOBER 18, 1902.

THE Saginaw Whistle Co. are a new Saginaw (Mich.) concern, capitalized at $5,000. We predict that they will have trouble in fighting the office boys' trust.

THE evil effect of governmental tinkering too deeply with industrial progress is exemplified by recent Russian reports. Several years ago the Minister of Finance in order to bolster up the iron industry, which was suffering from a severe crisis, designedly increased the prices paid for rails, locomotives and other goods for the government. The companies securing these profitable contracts disposed of their other output intended for the open market at unremunerative prices, thus rendering the condition of competing firms not favored by these contracts so much the worse.

THE Hardware Trade Journal of London, England. makes an excellent point for the hardware trade in this country as well as in that to the effect that they should take up the Christmas trade for the amount of advertising they would receive out of it, arguing with justice that the hardware dealer who puts in a small line of pictures. picture frames, writing cases, library sets, mechanical toys, magic lanterns, etc., will get within his store a number of persons who would not otherwise be found there. This is an inexpensive yet effective way of advertising, and a man must advertise in these days if he expects to be numbered with the survivors in the business struggle.

"THE CEMENT AGE" is the suggestive caption under which a Toronto publication calls attention to the increasing demand for cement in the Dominion of Canada. Indications are not wanting that cement is soon to become an important factor in the industrial and commercial development of the United States. Its ready adaptability for use as building material, decorative purposes and street improvement is not only suggested by the erection of costly manufacturing plants in many parts of the Union, but is even more strongly suggested by the rapid increase in the production of cement during the past decade, and especially during the past five years. The production of cement in the United States has actually doubled in five years, the total for 1901 being 20 million barrels, as against 10 million barrels in 1897; while during the period from 1892 up to the beginning of 1896 the production had remained practically stationary at about 8½ million barrels per annum.

THE recent scarcity of anthracite coal has brought forth a number of preparations for the economical burning of coal. A New York brick concern have done a thriving business in selling a terra cotta brick, which on being soaked with oil will burn for some time. An Amsterdam avenue, New York, plumber has devised a preparation for helping users to burn soft coal. A half spoonful of this preparation is dissolved in a glass of water, and is applied to the coal by sprinkling. Other manufacturers are looking up the facilities of plants for the manufacture of briquettes, a German artificial coal, and slack and peat are also securing close attention these days.

IN a climate like ours there is necessarily a heavy consumption of coal for heating purposes. Thousands of locomotives, thousands of factories, thousands of steamships also consume a heavy quota of black diamonds. Consequently the cessation of mining on as large a scale as has been witnessed the past few months necessarily boosted anthracite coal to prohibitive prices. This scarcity of hard coal has had a deterrent effect on the sale of stoves burning this particular fuel as a natural result, but it looks now as though there would be a much brisker demand for these stoves than many dealers have anticipated. Anthracite coal cannot remain at $26 a ton very long. It is bound to tumble down rapidly and to reach a figure approximating that at which it was sold last year. The drop in anthracite is certain to come, but the only question is whether it comes in time to benefit the stove fraternity. It's a question whether the anthracite people or old winter is the first on the scene. If we have a late winter and hard coal is mined in quantities sufficient to make it a market commodity again in the broadest sense of the word before the biting cold sets in, there is still a chance for a brisk stove business in hard coal stoves.

THE export figures for September are extremely encouraging. They are the largest ever shown for September, with the single exception of that month in the year 1900, and fall less than a half million dollars below the high water mark made in that year. The figures, as just presented by the Treasury Bureau of Statistics, show the total exports in September, 1902, to be $115,521,984, against $106,989,926 in September, 1901, and $115,901,722 in September, 1900, the highest figure ever shown by September exportations. Comparing present conditions with those of earlier years, the figures for September, 1902, are 25 per cent in excess of those of September, 1898, 50 per cent greater

than those of September, 1890, more than double those of September, 1888, and nearly three times as great as those of September, 1885. This seems to indicate that the downward tendency in the export trade caused by the corn crop failure of last year has reached its lowest point and that the reverse movement toward normal conditions has begun.

WHATEVER one's business, whether merchant, jobber or retailer, all have suffered from dilatory shipments, and hence will welcome the following decision of the Supreme Court of Alabama on the question of commercial promptness. It appears that an Alabamian named Hamilton purchased some vinegar from the Oklahoma Vinegar Co., on the understanding that the goods were to be shipped at once. However, this firm did not ship the goods for more than two weeks after they were ordered, and when they were received a week later, too late for the purpose of the purchaser to communicate to the agent of the seller at the time the order was given, acceptance was refused. The vendors set up a defense that they needed this extra time to investigate the purchaser's solvency, but the court decided that under the circumstances, the vendor did not set such a time for shipment as would demand instituting and completing such an investigation. According to this decision when the fluent salesman says that this firm will ship carload of barb wire or stoves at once, and they do not come for three weeks, they need not be received by the consignee.

RANDOM SKETCHES.

BY SIDNEY ARNOLD.

I was talking with a section boss on the Cincinnati, Richmond & Muncie road the other day and to hear him tell how much work he had to do for $45 per month one would decide that the happy tinner who erects windmills, repairs pumps, solders tin pans, makes elbow patterns, blacks stoves, sells nails and builders' hardware, plays a saxaphone, milks his employer's cow, cleans out the place, etc., has a regular snap by comparison. The section boss must be posted on the book of rules; he must know about the rules governing trains; he must understand and be up to date on the time card; he must have character and good habits, vision and hearing, must know the use of signals; he must inspect the track each morning and guarantee its safety, using his own judgment he must watch for obstructions, have a knowledge of masonry, know about bridges and the strength of same; he must be so reliable that he will patrol the track in storms, have the material in charge well cared for, and where it can be gotten at quickly; must have all tools in place and all rubbish picked up, grass and weeds mowed on the right of way, fences in good condition; must report on wrecks, stock killed, know how to put foot guards in frogs and obey special instructions, look out for fires, know that the signal lights are placed, help when there is a wreck all day and all night if it is required, and assist all other departments in laborious work, and yet he must have all his own work done and that with a regular crew of sectionmen. When the daily labor hours are over he must make out and keep a record of his own time and that of the men under him, and make requisitions for supplies needed on the section. He must know how to write letters and keep books without the aid of a stenographer or bookkeeper. He must understand how to raise the track, take out the sags, smooth the surface and tamp the joints, keep the proper elevation and alignment of rails and curves, and when he knows all this and has done it he will be considered a fairly good section foreman, if he has the base of the milepost mounds built with whitewashed rock and has a few flower beds along the line where the "big guns" can see them.

* * *

I FIND the following interesting item in the Jackson, Mich., Patriot, of Oct. 3:

"Jackson hardware dealers are now up against the hard coal proposition themselves and are as anxious as any one that this commodity be placed on the market once more and that the market resume its old and normal equipoise.

"A visit to a number of local firms finds dealers lamenting a large stock of hard coal burners, with no market. One dealer stated that he was unable to sell a single coal burner, that the people had nothing to put in them, and that they were not unlike an elephant on his hands. 'People who have had their stoves stored in my back rooms this summer have not ordered them set up and wish us to keep them a little while longer. The reason is obvious; they have no coal and none can they get. Some of my best customers state that they have not even a lump of coal for their base burners. We don't advertise them to any great extent, as it would be money lost.'

"Other dealers echo the lamentation of the first and state that it is impossible to make sales. Only one dealer in the city said that he had sold any, and he said that he had not noticed any great change in the market, although he had sold double the number of soft coal burners that he did last year. 'This year I have sold twice as many soft coal burners as I have hard,' he added.

"Wood stoves and soft coal stoves find a ready market and are being bought up rapidly. Even people who have the hard coal burners in their homes are buying soft coal consumers for fear that the situation will not be alleviated in time to supply the interior markets."

* * *

AND now the truthful press dispatches have it a farmers' combine has been formed with a capitalization of $50,000,000 and this is what this new company will do according to one of the promoters:

"Within a year we shall be in control of the entire agricultural output of the United States. There is even a prospect that the enterprise will assume an international character. We have received inquiries from abroad and it may become necessary to enlarge our scope sufficiently to care for the crops of other countries as well as the United States—perhaps of the entire world. The consumer will probably not feel the increase in prices at all. The saving will come out of the middlemen—those who hitherto arbitrarily have fixed the price at which the farmer must sell his crops, and who have robbed him of the benefit of a favorable

market and forced him to bear the burden when prices were low."

* * *

FROM the Philo correspondence of the Champaign, Ill., News of Oct. 10, I learn that "The hardware store belonging to the William Servis estate was sold last week to Homer Ford of near Tolono, who paid $700 more than the invoice. Another man who wanted it says that he will now start a new hardware store." It has been truly said that competition is the Damoclean sword of modern business and it seems the man "of near Tolono" is about to get his share of it.

* * *

I LEARN from the press that "On Oct. 15 J. Pierpont Morgan did not leave his office until a quarter of six." Talk about discrimination. Why, I know a dozen Lake street business men who did not leave their offices until after 6 p. m. on Oct. 15, and yet no mention is made of the fact in the plutocratic journals.

* * *

HARDWARE men run up against the "didn't-know-it-was-loaded" idiot oftener than the general run of humanity. A leading Michigan dealer tells this story of a couple of experiences with these gentry, who vie with the fool who rocks the boat for the honor of being the prize idiot who is allowed at liberty: "Yes, those fools who think a gun is not loaded will always turn up. In the hardware and gun trade we meet them often. Not many months ago while on the Mesaba iron range a man came into my store, pointed a gun straight at me and said: 'Have you got any cartridges for this gun?' I reached my hand out, turned his revolver one side and said to him: 'For God sakes, don't you know better than point a gun at a man?' 'What yer afraid of? It ain't loaded,' he said, and then turned and pointed the revolver toward the window and commenced pulling the trigger to convince me the gun was empty. All at once 'bang!' went the gun and smash went the glass in the front window. Only an hour or two later I was talking to a neighbor outside the counter when I heard a report and a whiz and a spent bullet which had glanced from a casting on the shelf dropped at our feet between us. We were both frightened and I went across the street into a saloon and asked the proprietor what he meant by his careless shooting. He denied shooting toward the store and said a drunken fellow had just been in there flourishing a gun which he said wasn't loaded and which he took away from him and fired downward at a wood pile. It was loaded, and one of the bullets went from the wood pile straight into my store. This was experience enough for me for one day. I always insist on every shell being taken out of the guns when out with a party before any one puts a foot in a boat or vehicle. It's the only safe way."

* * *

ARCHER BROWN, of Rogers, Brown & Co., has an interesting article in the "Engineering Magazine" for October, in which he says:

"As to the prospect for a world trade in American iron and steel products it must be admitted that two years have wrought a great change, and not in the direction of progress. In 1899 and 1900 American exports of rails, billets, wire, ship-plates and even of pig iron were on a scale that struck terror to European makers. The centers of production in Great Britain and Germany, underselling them at their doors.

"Now it is sending abroad nothing but agricultural machinery, machine tools and sundry highly finished specialties in which American skill finds particular expression. English and German makers have no sooner pulled themselves together and reduced costs to meet the dreaded American competition than America has withdrawn from the field.

"Not only that, but she has astonished them by becoming their largest and best customer, permitting them to ride over the tariff wall with three to five shiploads a day of pig iron, billets, structural shapes, plates, etc."

It is said that the importations of European pig iron which have been made to Pittsburg have proven failures, as it was found to contain too much silica and be too high in phosphorous, and when smelted and blown in at the Bessemer converters it was discovered that it required too much fuel to clean the iron of the phosphorous and other impurities.

* * *

TRULY the lot of the small mail order house is quite a snap. From the last issue of Current Advertising issued by Charles Austin Bates I learn that "the —— Cutlery Co. of —— manufacture cutlery and co-operate with small mail-order firms by furnishing circulars and catalogues with the imprint of the latter on them. They then ship the goods direct to the customers of the people who send out these circulars, thus enabling their own customers to do business without laying in any stock whatever. This is not a peculiar situation in a mail-order field; in fact at present it appears to be widely and profitably done with many articles that are much more popular than cutlery. Everybody concerned in such an arrangement is benefited. The manufacturer sells his goods, the mail-order man secures them only when he needs them, and is not even put to the inconvenience of having any in stock of which he cannot dispose, does not pay for conveying them to the eventual purchaser, and that purchaser secures them at a small price, made possible by the ease with which the various parts dovetail."

This firm, I presume, occasionally solicit an order from retailers and express deprecatory surprise when the latter say they cannot compete with prices made by mail-order houses.

Why pay rent, clerk hire, advertising expenses, etc., when you or any one else can get a cutlery catalogue gratis and on receiving orders can have the goods shipped direct without any handling on your part at all?

By the way, what are you doing toward helping along the National Association of Retail Hardware Dealers, who are every day gathering valuable information concerning the selling methods of various manufacturers?

* * *

WHAT would you thing of a salesman whose conversational *repertoire* consisted mainly of the word "Hello" in a loud tone of voice? It is curious to note how many merchants seem to think that this word set in a large square Gothic possesses great merit as an advertising fetich.

News Siftings.

The Gunter Stove Works, Bridgeport, Ala., were severely damaged by fire on October 9.

The F. & L. Kahn Bros.' Co., Hamilton, O., are erecting an extension to their foundry, 224x126 feet in dimensions.

The Standard Stove Works, Birmingham, Ala., is erecting a one-story corrugated iron office and warehouse at a cost of $1,000.

A tornado which struck Quincy, Ill., on the night of Oct. 13th did some slight damage to the plant of the Comstock-Castle Stove Co., of that city.

The Crescent Novelty Works, Chattanooga, Tenn., manufacturers coal, gas and acetylene burners, have purchased ground for the erection of a new factory.

The United States Steel Corporation have purchased thirty acres of ground at New Orleans and will erect a large warehouse thereon, making it a distributing point.

Edward G. Germer, Otto Germer and Emile Germer are the incorporators of the Germer Stove Co., Erie, Pa., who will succeed to the business of Black & Germer.

Manufacturers of gas stoves in western territory are contemplating organization on lines corresponding to those of the National Association of Stove Manufacturers.

J. M. Litchfield, the popular Gotham stove jobber, has enjoyed a heavy run of business the past year and has been forced to secure the additional store at 281 Pearl street, New York, to care for his increased trade.

Charles L. Applegarth, Chas. G. Smith, John Burneburg, John G. Doan and Frank Chavannes are the incorporators of the Chesapeake Iron Works, Baltimore, Md., capitalized at $15,000, for the manufacture of bolts, nuts and machinery.

Frank G. Raible, advertising manager of E. C. Atkins & Co., Inc., Indianapolis, Ind., was a recent caller at THE AMERICAN ARTISAN office. This firm are having an excellent demand for their saws of every description, tools and machine knives.

The New York Sun of Oct. 11th states that the supply of gas stoves in that city has run out, and that the gas companies are not especially displeased at it, as they did not figure on doing all the heating and cooking for Gotham that the coal companies usually do.

The H. A. Matthews Mfg. Co., Seymour, Conn., are makers of a complete line of sheet steel draft registers. The threads for these registers are cut uniform and perfect. The disc is securely connected with screen without cotter pins or washers. These registers can be fitted tight or loose as desired. These registers are furnished to fit the Burdick tin nut or any thread called for.

The Union Stove Repair Co., 2852-2854 Archer avenue, Chicago, sends us a leaflet calling attention to Dixon's stove cement, which comes in the form of a dry, coarse powder and is made ready for use by the addition of a little water. It requires but little time to dry and can be fired very quickly after using. It is packed in six and ten pound packages—one dozen packages in a case.

The Evans Stamping & Plating Co., Taunton, Mass., are manufacturers and C. H. Matthews, Detroit, Mich., is western agent, for the Acme oven thermometer. Style "E" of this thermometer has a flat back and can be adjusted to a cheap door where a smooth surface is required. In their clock face or style "D" thermometer the hand working from the center gives an unusually large movement.

J. M. Litchfield, the New York stove jobber, is finding the increment in the volume of orders for the popular stoves and kindred goods he handles very gratifying, but at the same time rendering his present quarters decidedly cramped. In order to care for his trade with the utmost dispatch he has leased the premises 228 Water street, corner of Beekman (the old Barstow corner), for five years, commencing May 1, 1903. He will occupy the entire building at this number.

The United States Board of Appraisers, of New York City, held a meeting on Oct. 13th, and among the objects whose classification were considered was that of German briquetts, which have been quite largely imported since the commencement of the anthracite coal strike. The conference decided that briquetts are dutiable as non-enumerated manufactured articles at 20 per cent *ad valorum* duty. The official analysis of this fuel determined that it consisted of 70 per cent fixed carbon, with the residuum composed of turpentine and petroleum.

Frank P. O'Neill, 116 Nassau street, New York City, has an article of merit in a complimentary postal order book, manufactured by B. Loewenbach & Son., Milwaukee, Wis., for whom Mr. O'Neill is general agent. The book contains twelve postal cards, with jobber's address printed on one side, the other side being for orders. A duplicate sheet, non-detachable, is between each card, and by the placing of a carbon paper between the card and paper in writing the order, the dealer is enabled to keep a memorandum of all orders. The covers are printed with whatever matter the jobber desires, and the latter will find this book a great help in increasing their country trade. Many leading hardware jobbers of the country are adopting this system, and from the large business and the number of duplicate orders Mr. O'Neill has received, the books are certainly proving profitable and giving satisfaction. Full information and samples will be sent upon application. Kindly add: "Saw it in THE AMERICAN ARTISAN."

The Best Street Light Co., 217 E. 5th street, Canton, O., send us a circular describing some of their popular lights. The No. 94 Best indoor arc light of 600 candle power weighs 8 pounds, has a 5½-quart reservoir and is 30 inches long. It is a one-mantle, air pressure arc lamp that can be hung or set anywhere. It is made of the best material by skilled workmen and up-to-date machinery. It is nicely finished in oxidized copper, highly polished. Their No. 81 is a two-mantle air pressure arc lamp, designed for indoor use. The reservoir is made of No. 18 gauge sheet brass. The ventilator is of galvanized iron, oxidized. The light

is steady and very brilliant. Their No. 82 is a powerful gasolene lamp, with hinged globe and two standard size mantles. The No. 95 is a one-mantle air pressure arc lamp designed for outdoor use. It consumes two quarts of gasolene in eight hours, giving a 600 candle power light. It is wind proof, made of the best material, is nicely finished, and the burner is simplicity itself. One of these circulars will be forwarded the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

William S. Essick, formerly general manager and secretary of the Reading Stove Company (Orr, Painter & Co.), who is widely recognized as one of the most experienced stove men in the country, being thoroughly acquainted both with the manufacturing and trade ends of the business, has taken a position with the Prizer-Painter Stove & Heater Co., of Reading, as their general sales manager. In his new position Mr. Essick expects to find a wide field for his energy and ability. The Prizer-Painter Stove & Heater Company's business is constantly enlarging and their engagement of Mr. Essick is in pursuance of their policy of placing the very best talent and skill in charge of their several departments.

The Fuller-Warren Co., Milwaukee, Wis., have a very handsome steel range in the Regal Stewart. The bodies of this range are made of a very high grade, cold rolled polished steel in natural finish, riveted with cone-headed rivets. The draft attachment with lighting and poking door are of the latest construction, giving perfect access to all parts of the grate. The coal feed or broiling door is of extra size. The oven plates are of extra thickness and the oven top is thoroughly protected by asbestos board in addition to a heavy cast protection plate, while the oven bottom is amply braced by cast bars to prevent buckling. The oven damper is of an improved construction, and very free in operation. The wood feed door is of extra size, being the full width of the fire box. The grate is of the latest improved duplex combination pattern and can be removed through the front of the range. The cast base is very heavy and there is an improved screen draft damper in the ash pan door.

The Charm air-tight, with ash pan and cast linings for wood, is made of the best quality smooth-finish cold-rolled steel. All joints are air tight. The cast linings are heavy, thoroughly protecting the steel body. Other features are handsome urn, nickel-plated side rails, swing top, draft register, door handles, etc.

A CRANIOLOGICAL BY-PRODUCT.

The industrial problem of the age is the utilization of by-products. The Standard Oil Company makes chewing gum out of the refuse of kerosene. The coke makers find all kinds of useful chemicals in that part of the coal their predecessors wasted. The main product of the Gobeille Pattern Co., Cleveland, O., is found in artistic ideas concerning the construction and ornamentation of stores, and as a means of utilizing the artistic ideas originating in their establishment and inappliable to stove ornamentation their Mr. Jos. Leon Gobeille is bringing out a reproduction of Poe's beautiful poem, the "Raven," illustrated with drawings by Robert Hartley Perdue, also of this company. *This edition de luxe* is quarto in size, printed on the best Imperial Japan paper, and has an extra set of the embellishments in Sanguine (proofs) inserted. The price is $2.50 and the edition is limited to 43 copies.

WARREN'S FOLDING INTERLOCKING MICA CHIMNEY.

Eugene Munsell & Co., 117 Lake street, Chicago, and 218 Water street, New York, are manufacturers of Warren's folding, interlocking mica chimney, shown herewith.

Fig. 1.

Fig. 3.

Fig. 2.

This chimney transmits ten per cent more light than other mica chimneys, it is claimed, casts no shadow, takes up little room and has a low shipping rate. To form this chimney carefully roll the flat sheet, Fig. 1, bringing the metal strips, *A A*, shown in Fig. 2, together. Then interlock them, completing the cylinder, as shown in Fig. 3. To clean this chimney unlock and lay out flat and wipe carefully with a soft cloth, moistened with water or vinegar. This firm was established in 1840; are headquarters for all grades of mica, including North Carolina mica, Wyoming mica, India mica and Amber mica, sheet cut or ground for the store and hardware trade, mechanical purposes, electrical construction and repairs.

THE MAN BEHIND THE STOVE POLISH.

We have all heard of the man behind the gun and the man behind the editorial. The accompanying cut shows Lewis D. Wynn of Sterling, Ill., the man behind the Black Silk stove polish. Mr. Wynn is an enthusiastic believer in the merits of this polish, and is not afraid to have the trade and the public associate his features with the merits of his goods. So extensive has been the vogue of this polish that Mr. Wynn's features are widely known and when away from home people frequently say to him, "Excuse me, your face looks familiar, but I don't recall your name." Mr. Wynn is enjoying a phenomenally large business and is kept hustling in filling orders from dealers all over the country. As an instance of the strong home popularity Mr. Wynn enjoys the story is told that a dealer cut one of his

counterfeit presentiments from a can of Black Silk stove polish and pasted it on an envelope. Below same he put simply the words "Sterling, Ill.," and it reached its destination without delay.

STOVE SITUATION IN INDIANAPOLIS.

The Indianapolis News of Oct. 7 contains an interview with one of the leading stove dealers in that city on the situation in which he says:

"The failure of the natural gas supply and the strike of the coal miners has caused rather a peculiar situation in the stove business, and I believe that a number of the dealers will be tied up with a number of stoves that they will have to hold over until next year.

"You see, we calculated that there would be a big demand for anthracite stoves this fall and early winter, because of the failure of gas. Of course, the greater part of the people who had been burning gas had been using heating stoves, instead of furnaces, but the stoves had been so battered and burned out and abused that they were not in a fit condition for coal. We thought that the public would take the most convenient fuel it could find after the gas was cut off, and that would mean anthracite, so we laid in a number of anthracite-consuming baseburners.

"Then the miners' strike settled down for keeps, and now most people are afraid to buy a stove for hard coal, when the prospects for buying the coal are so discouraging. A few people who are comparatively well off have bought such stoves, with the intention of burning coke, but coke is away up, too.

"The majority of our patrons are buying the various makes of 'hot-blast' stoves, as with them one can burn anything, with the intention of using soft coal this winter. So I imagine that some of the dealers will store a number of anthracite stoves next spring, to be put on the market next winter."

AN INNOVATION IN TRADE LITERATURE.

The Brand Stove Co., Milwaukee, Wis., send us their handsome thirty-fifth annual catalogue, also price list for same. They have introduced an innovation in stove trade literature, inasmuch as their catalogue shows merely half-tone illustrations of their handsome stoves and ranges, while the descriptions, weights and dimensions of same are given in the price book. Their catalogue shows Brand's Sovereign steel range, Brand's King steel range, Brand's Queen steel range, Brand's Famous steel range, Brand's Homer steel range, Brand's Homer steel cook, Brand's Eureka cast range, Brand's Pioneer cast range, Brand's Record cast range, Brand's La Belle cast cook, Brand's Mendota cast cook, Brand's Manitou cast cook, Brand's Lehigh cast cook, Brand's Delevan cast cook, Brand's Wabash cast cook, Brand's Admiral hard coal base burner, Brand's Commander hard coal base burner, Brand's Brilliant hard coal base burner, Brand's Captain hard coal base burner, Brand's Star for hard coal, Brand's Oak, Brand's Monona, Brand's Elmo, &c.

The bodies of Brand's Sovereign, Brand's King and Brand's Queen steel ranges are formed of heavy planished steel. They are interlined with heavy asbestos mill board, and the riveting is thoroughly done by hand. The ovens are perfectly square and are made of extra heavy selected steel. The tops and bottoms are thoroughly braced with heavy cast angle irons, preventing buckling. The clean-out door is large and is swung to an extended frame, the projection of which forms a convenient shoot under which to place the ash pan to catch ashes or soot when the oven bottom is being cleaned. The oven doors are evenly balanced, and when wide open are flush with oven bottom. The fire box linings are heavy, well fitted and thoroughly ventilated. The duplex grate is easily removed through the grate door without disturbing the linings. The tops are made up in sections with ample provision for expansion and contraction.

In Brand's Admiral and Commander base-burners the heated gases or products of combustion pass from the combustion chamber to the base, thence around the entire base and up to the smoke pipe, traveling all the distance in a solid body. The fire pots and grate surface are properly proportioned to produce the very best results. The castings are smooth and perfectly fitted.

These heaters are symmetrically formed and handsomely nickel-plated. This firm would be pleased to send the trade one of their catalogues and price lists on application. When writing for same kindly add, "Saw it in THE AMERICAN ARTISAN."

ARE WORTH MORE.

There can be no question but that Aeolipyles are about four times as valuable this year as they were last. This ingenious device manufactured by the Aeolipyle Co., 237 Water street, New York, increases heat, keeps an even temperature night and day and prevents the escape of coal gas. Experiments have demonstrated that it effects a heavy saving in coal, and as coal is about four times as high this year as it was last these devices save just about four times as much money as they did then.

SHOULD USE GREATEST CARE.

The executive council of the Massachusetts State Board of Trade held a meeting on Oct. 14. The committee on insurance submitted a report based on a request from the Massachusetts Mutual Fire Insurance Union that the board of trade take into consideration the perils which are likely to follow the use for domestic purposes of hazardous articles and burning oils in consequence of the coal famine. After quoting the permits given by the insurance companies for the use of kerosene and gasolene stoves, and the cautions as to filling the reservoirs and the storage of the liquids, the committee concludes:

"In view of the solicitude of the Massachusetts Mutual Fire Insurance Union in this matter, we would recommend that the Massachusetts State Board of Trade call the attention of the public to the necessity of the greatest care in the use for domestic purposes of kerosene oil and gasolene, which are so often perilous to life and property."

The Hardware Record.

American Hdw. Mnfs. Assn.

Pres., F. R. Plumb, Philadelphia.
Vice-Pres. — Samuel Nicholson, Providence; C. S. Van Wagoner, Cleveland; F. S. Kretsinger, Fort Madison, Ia.
Sec., F. D. Mitchell, Pittsburg.
Ex. Com., Robert Garland, Chairman, Pittsburg; Henry B. Lupton, Pittsburg; N. A. Gladding, Indianapolis; W. S. McKinney, Allegheny, Pa.; Samuel Disston, Philadelphia; C. E. Adams, Cleveland; James P. Kelly, Alexandria, Ind.; J. C. Birge, St. Louis.

Arkansas Retail Hdw. Dealers Assn.

Pres., John M. Pitman, Prescott.
1st V.-P., J. F. Maxey, Ozark.
2d V.-P., T. B. Stewart, Newport.
Sec., C. E. Taylor, Little Rock.
Ex. Com., H. Williams, Hot Springs; J. H. Boicourt, Little Rock; E. E. Mitchell, Morrilton; W. M. Graham, Clarendon; R. F. Roys, Russellville.

Chicago Retail Hdw. Dealers' Assn.

Pres., D. McLaughlin.
V.-P., H. E. Gnadt.
Sec., G. R. Lott.
Collector, John Hora.
Treas., J. L. Smith.

Hardware Merchants' and Manufacturers' Assn of Philadelphia.

Pres., William C. Peters.
V.-P., Thomas Devlin.
Sec.-Treas., T. James Fernley.
Directors, W. W. Supplee, H. McCaffrey, E. S. Jackson, W. C. Peters, S. Disston, E. Fisher, J. H. Ritter, T. Devlin, T. J. Fernley.

Illinois Retail Hdw. Dealers' Assn.

Pres., H. G. Cormick, Centralia.
V.-P., D. Holder, Bloomington.
Sec., L. H. Clark, Rockford.
Treas., F. F. Porter, Chicago.
Ex. Com., H. G. Cormick, Centralia; D. Holder, Bloomington; L. H. Clark, Rockford; F. F. Porter, Chicago; Z. T. Miller, Bloomington; W. T. Gormley, Chicago; H. N. Murphy, Galesburg; C. Mauer, East St. Louis; R. G. Scheurer, Vandalia; F. W. Siecke, Freeport.

Indiana Retail Hdw. Dealers' Assn.

Pres., W. P. Lewis, New Albany.
V.-P. Jas. L. Fulton, Portland.
Sec.-Treas., M. L. Corey, Argos.
Members Ex Com., I. A. Sibley, South Bend; E. M. Bush, Evansville; W. H. Weed, Vincennes.

Indian Territory Retail Hdw. Assn.

Pres., J. G. Smith, Canadian.
1st V.P., Fred Parkinson, Wagoner.
2d V.-P., E. C. Stretch, Vinita.

Iowa Retail Hdw. Dealers' Assn.

Pres., W. A. McIntire, Ottumwa.
V.-P., J. Seither, Keokuk.
Sec., W. H. Keating, Ottumwa.
Treas., Geo. Lister, Manchester.
Exec. Com., J. Seither, Keokuk; Clarence Philips, West Liberty; L. Lindenberg, Dubuque, T. J. Lomas, Cresco; C. F. Schmidt, Marshalltown; Homer Duncan, Albia; L. H. Kurtz, Des Moines; C. R. Keating, Mt. Ayr; Chas. Swaine, Council Bluffs; H. S. Vincent, Ft. Dodge; W. H. Millard, Cherokee.

Kansas Hardware Dealers' Assn.

Pres., Oscar Roehr, Topeka.
V.-P., E. J. King, Logan.
Sec.-Treas., J. A. Cole, Topeka.
Ex. Com., F. W. Bartlett, Kansas City; T. H. Kinlry, Beloit; J. M. Walters, Robinson; J. H. Hamilton, Arkansas City, T. J. O'Neill, Osage City.

Kentucky Retail Hardware and Stove Dealers' Association.

Pres., W. T. Oldham, Mt. Sterling.
1st V. P., J. L. Macin, Vine Grove.
2d V.-P., W. S. Shacklett, Fulton.
Sec., Paul Wagner, Louisville.
Treas., Henry Heick, Louisville.

Michigan Hardware Association.

Pres. T. Frank Ireland, Belding.
V. Pres. John Popp, Saginaw.
Secy. A. J. Scott, Marine City.
Treas. H. C. Weber, Detroit.
Ex-Com. J. B. Sperry, Port Huron, F. A. Turner, Caro, J. G. Patterson, Detroit, F. S. Carlton, Calumet S. E. Hunt, Detroit, Samuel Winchester, Jackson, Fred S. Cook, Fowlerville, C. E. Pipp, Otsego, A. Harshaw, Delray, A. J. Scott Marine City

Minnesota Retail Hardware Assn.

Pres., W. H. Tomlinson, LeSueur.
V.-P., H. S. Cleveland, Minneapolis.
Treas. W. E. Barto LongPrairie.
Sec. M. S. Matthews, Mnpls.
Exec. Com., W. H. Tomlinson, Le Sueur, H. S. Cleveland, Minneapolis; F. E. Hunt, Red Lake Falls; Benj. F. Kernkamp, St. Paul; A. C. Hatch, Battle Lake; Jos. Mason, St. Peter; C. F. Ladner, St. Cloud; J. Schmidt, Wabasha; E. H. Loyhead, Fairibault. A. T. Stebbins, Rochester; J. McGuire, St. Paul.

Missouri Retail Stove and Hardware Dealers' Association.

Pres., Tayler Frier, Louisiana.
V. P., Ed L. Wachter, St. Louis.
Sec., F. M. Neudorff, St. Joseph.
Ex. Com., J. W. Poland, Carrolton; F. A. Kannsteiner, St. Louis; Frank Mayer, Macon.

National Hardware Association.

Pres., R. A. Kirk, St. Paul.
1st V.-P., John C. Koch, Milwaukee.
2nd V.-P., Brace Hayden, San Francisco.
Sec.-Treas., T. James Fernley, Philadelphia.
Ex. Com., W. K. Belknap, Louisville; Samuel B. Bigelow, Boston; P. E. Strauss, Boston; J. D. Moore, Birmingham; R. M. Dudley, Nashville; W. S. Wright, Omaha.
Advisory Board, W. W. Supplee, Philadelphia; H. H. Bishop, Cleveland; John Bindley, Pittsburg; R. W. Shapleigh, St. Louis.

Nebraska Retail Hdw. Dealers' Asn.

Pres., T. W. Morton, Omaha.
1st V.-P., C. K. Lawson, Hastings.
2d V.-P., W. T. Coleman, McCook.
3d V.-P., J. C. Cornell, Ord.
Sec.-Treas., Harry Hall, Lincoln.

National Retail Hdw. Dealers' Asn.

Pres., H. G. Cormick, Centralia, Ill.
V.-P., C. N. Barnes, Grand Forks.
Sec., M. L. Corey, Argos, Ind.
Treas., W. Bogardus, Mt. Vernon.
Exec. Com., W. P. Bogardus, Mt. Vernon, O.; O. P. Schlafer, Appleton, Wis.; C. F. Ladner, St. Cloud, Minn.; W. A. McIntire, Ottumwa, Ia.; S. E. Jones, Richmond, Ind.

N. Dakota Retail Hdw. Dealers' Asn.

Pres., H. N. Joy, Hamilton.
V.-P., H. F. Emery, Fargo.
Sec., C. N. Barnes, Grand Forks.
Treas., W. H. Pinkerton, Lakota.
Ex. Com., H. Harrington, Fargo; W. W. Jamieson, Wahpeton; Anton Enger, Cooperstown; Frank Lish, Dickinson; H. F. Strehlow, Casselton; I. L. Newgard, Grafton.

Ohio Hardware Association.

Pres., W. P. Bogardus, Mt. Vernon.
V.-P., L. F. Stahler, Waverley.
Cor. Sec., D. R. Burr, Piqua.
Fin. Sec., W. C. Jones, Columbus.
Treas., H. A. Waller, Ravena.
Ex. Com., J. B. Carson, Hamilton; C. D. Cussins, Columbus; C. W. Jewell, Utica; M. B. Talmage, Mt. Gilead; H. F. Rahe, Columbus; J. Rohrbacher, Akron; A. H. Strome, Warsaw; Geo. G. Meyer, Cincinnati.

Pennsylvania Retail Hdw. Assn.

Pres., Geo. L. Moore, Brownsville.
V.-P., Geo. J. Rudolph, Pittsburg.
Sec., J. E. Digby, McKees Rocks.
Treas., B. A. Maggine, Braddock.
Ex. Com., E. E. Lyon, Greensburg; C. N. Savage, California; B. A. Maggine, Braddock, C. O. Shroyer, Dawson.

St. Louis Stove Dealers Assn.

Pres., F. A. Kansteiner.
1st V.-P., Aug Steinmeyer.
2d V.-P., Aug. Gruendler.
Sec., A. F. Geschwindner.
Treas., L. J. Boehl.

Southern Hardware Jobbers' Assn.

Pres., F. A. Heitman, Houston.
1st V.-P., Col. B. F. Eshelman, New Orleans.
2d V.-P., John Donnan, Richmond, Va.
Sec., C. B. Carter, Knoxville.
Ex. Com., W. M. Crumley, Atlanta, Ga.; O. B. Barker, Lynchburg, Va.; Chas. H. Ireland, Greensboro, S. C., C. S. Speer, Hot Springs Ark.

Texas Hardware Jobbers' Assn.

Pres. Jas. Moroney, Dallas.
1st V.-P., J. C. Bering, Houston.
2d V.-P., J. Burnsides, Ft. Worth.
Sec.-Treas., R. Bell, Weatherford.
Ex. Com., G. A. Trumbell, Dallas; F. A. Heitman, Houston; E. S. Hughes, Abilene; J. J. Dickerson, Paris.

Wisconsin Hdw. Dealers' Assn.

Pres., O. Schlafer, Appleton.
V.-P., L. Findiesen, Green Bay.
Sec.-Treas., C. A. Peck, Berlin
Ex. Com., J. Kornelly, Milwaukee; E. H. Ramm, New London; A. Noll, Chilton; H. L. McNamara, Janesville.

The Vanator Edge Tool Works are a new Grand Ledge (Mich.) concern.

Chas. L. Leland has sold his hardware business at Colon, Mich., to Wolfinger & Smithley.

The National Spring & Wire Co. are a new Albion (Mich.) concern, capitalized at $10,000.

The Alaska Freezer Co., Winchendon, Mass., have completed their galvanizing and tinning plant.

The Fountain City Drill Co., La Crosse, Wis., have erected an important addition to their factory.

The Owosso Hardware Co., Owosso, Mich., recently placed an order for seven carloads of wire fencing.

The Kruse & Bahlman Hardware Co., Cincinnati, O., are building a 4-story iron warehouse at a cost of $100,000.

It is said that Kansas City is using more hardware in proportion to its size than any other city in the country.

The Chicago Saw Works, Naperville, Ill., have purchased the business of C. S. Hughes & Co., Downer's Grove, Ill.

Mayer & Co., Philadelphia, Pa., manufacturers of files and rasps, have made extensive addition to their works in that city.

Watt Bros., Bathgate, N. D., hardware dealers, are victims of a recent fire. Their loss is $12,000, with insurance of $7,500.

Harvey D. Orr, W. D. Moore and S. D. Talbot are the incorporators of the Western Screen Co., Chicago, capitalized at $20,000.

W. H. Bond, W. W. Baldwin and C. F. Smith are the incorporators of the Abbott Hardware Co., New York, capitalized at $15,000.

F. J. Forster, W. B. Keiser and G. B. Wilcox are the directors of the Forster Pulley Works, Fairport, N. Y., capitalized at $25,000.

The first fall meeting of the New England Hardware Dealers Association was held at the United States Hotel, Boston, on Oct. 8.

A. S. Williams, W. H. Williams, Jr., and H. C. Cory are the incorporators of the Standard Bolt Co., New York city, capitalized at $15,000.

The Lansing Wheelbarrow Co., Lansing, Mich., will erect an addition to their plant for the manufacture of steel scrapers, at a cost of $50,000.

A slight fire occurred in the plant of the American Steel & Wire Co., Salem, O., on the night of Oct. 9th. The loss will amount to about $100.

B. J. Mueller, M. J. Barry and C. Kepler are the incorporators of the Dry-Kold Refrigerator Co., Indianapolis, Ind., capitalized at $10,000.

The Anderson (Ind.) Bulletin of October 8 states that the Kelly Ax Co. of Alexandria, Ind., has been absorbed by the American Ax & Tool Co.

The Withington-Cooley Mfg. Co., Jackson, Mich., have purchased a two-acre tract at Findlay, O., upon which they will erect a large handle factory.

The Standard Paint Co., New York city, have recently received an order from the managers of the Texas State Fair, Dallas, Tex., for 108,000 square

feet, of their Ruberoid roofing, for covering the exposition buildings of that city.

On October 8 burglars blew open the safe in the hardware store of J. H. Lawrie at Davenport, Neb., and secured booty to the value of $5,400 in cash.

The American Bolt & Grip-Nut Co. has been incorporated at Dover, Del., with a capital stock of $500,000, for the manufacture of rivets, nuts and bolts.

J. Walter Perry, Southport, Conn., advises us that the newspaper report that he has succeeded C. O. Jeliff in the manufacture of hardware at that point is erroneous.

On Oct. 8th the Brown-Hurley Hardware Co., Des Moines, Ia., had their articles of incorporation amended increasing their capital stock from $200,000 to $225,000.

On Oct. 11th the Orr & Lockett Hardware Co., Chicago, filed a suit for $40,240 against John Alexander Dowie, the Zion City healer. This suit was afterwards settled out of court.

J. R. Rossiter, W. M. Drane, Jr., B. W. Macrae, Matt Gracey and H. C. Merritt are the incorporators of the Ground Hog Plow & Foundry Co., Clarkville, Tenn., capitalized at $50,000.

The Richards & Conover Hardware Co., Kansas City, Mo., will shortly move into their new six-story brick building on the northeast corner of Fifth and Wyandotte streets, that city.

A. C. Tisdale, W. H. R. Buchanan and E. G. Wright are the incorporators of the W. H. R. Buchanan Co., Chicago, capitalized at $25,000, to do a general heavy hardware business.

The Jos. Dixon Crucible Co., Jersey City, N. J., send us one of their neat calendar blotters for October. This shows an inquisitive rabbit interviewing a fully accoutred hunter, who is calmly lighting his pipe.

William L. Strauss, Arthur S. Payne, William J. Gesell, John H. Voorhees, John Morrison and Harry Alexander are the incorporators of the Universal Brush Co., Troy, N. Y., capitalized at $250,000.

S. Schwartz, H. Cohen, A. Cohen and B. Broshard are the incorporators of the Cohen-Schwartz Rail & Steel Co., St. Louis, capitalized at $44,000, for dealing in a large scale in scrap metal and junk.

Daniel Barnheiser, J. M. Hurlbert, Charles F. Warner, F. J. Weismann and Edward P. Younger are the incorporators of the Perfection Pulley Co., Cleveland, O., incorporated with a capital stock of $10,000.

Jas. W. B. Turk, Robert P. Page, Gerhard H. Witte, and Henry J. Fowler are the incorporators of the Turk Patent Bolt & Nut Co., Jersey City, N. Y., capitalized at $125,000, for the manufacture of nuts, bolts and locks.

W. T. Adams is president, A. J. McCord is vice-president, J. F. McGregor is secretary and treasurer, and H. F. Ginser is superintendent of the Arithmetical Scale Co., Cincinnati, O., capitalized at $100,000 for the manufacture of computing scales.

The Glasbrite Co., 1327 Williamson Bldg., Cleveland, send us a circular describing Glasbrite, which is designed for cleaning dirty looking windows, dull looking tumblers, lamp globes or silverware. It is also invaluable for cleaning diamonds, gems, jewelry or figured fancy vases. A descriptive circular will be forwarded the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

R. F. Rives is president, E. D. Jones is vice-president, G. H. Stowe is secretary and their officers, with J. F. Garnett, J. P. Gaudle, W. H. Adams and C. Jarratt are the incorporators of the Planters' Hardware Co., Hopkinsville, Ky., capitalized at $40,000.

On October 8th the Ohio Hardware Dealers' Mutual Fire Insurance Co., Coshocton, O., was incorporated at Coshocton, O., by G. V. Guyton, Henry F. Rohe, O. M. Scott, J. P. Duffey, Fred Hobsman, George B. Meyer, C. C. Fouts, and George M. Gray.

The assets of this company amount to $10,282.33. John P. Duffy, of Greenville, was elected president and Charles M. Gray, of Coshocton, was elected secretary.

The New York office of Australasian Hardware and Machinery, our enterprising antipodal contemporary, heretofore conducted by John E. Glass, at Park Row Building, New York, will be moved on Oct. 25th to the English office of this company at 42 Cannon street, London, Eng.

The Moore & Handley Hardware Co., Birmingham, Ala., whose establishment was destroyed by fire recently, have determined to quickly rebuild their plant, and have promised their employes that they shall not be without salaries during the time they were thrown out of work on account of the fire.

The A. Dudly Mfg. Co., Menominee, Mich., have had marked success in the sale of patent combination wrenches since they started in business some two months ago, having made over 2,000 during that time and placed them on the market. They have recently booked a large order for these wrenches for delivery to Hamburg, Germany.

A number of hardware dealers located in Pennsylvania have organized a co-operative insurance company, under the style of the "Hardware Dealers' Mutual Fire Association of Pennsylvania." The object of this company is to reduce the cost of insurance by careful selection of risks and by economical management. W. B. Simpson, of Huntingdon, Pa., is secretary of this association.

Shipman, Bradt & Co., De Kalb, Ill., advise us that they are having a remarkable run on their low-down, short-turn delivery wagons for the hardware trade. During the last three months they have sold three times the number of hardware wagons that they ever sold during any period since they have been in business, and their entire list of customers are enthusiastic in the praise of their product.

TEXAS HARDWARE DEALERS MEET.

The Texas Retail Hardware and Implement Dealers' Association met at Dallas, Texas, October 8.

The following officers were elected for the ensuing year:

President—W. H. Richardson of Austin.

First Vice-President—S. L. Erwin of Honey Grove.

Second Vice-President—W. M. Gunnel of Marlin.

Secretary and Treasurer—James G. Blaine, Taylor.

Speeches were made by W. S. Thomas of the National Manufacturers' Asociation of the United States, and C. A. Keating of Dallas.

ARE MAKING IMPORTANT IMPROVEMENTS.

E. C. Atkins & Co., Inc., Indianapolis, Ind., have made some important improvements to their plant. They have just finished a three-story building, 125x 150 feet in dimensions, which will be occupied by a tempering shop on the first floor, and hand saw departments on the second and third floors thereof. This building is provided with a smoke stack, which extends 153 feet above the ground and 23 feet under the ground, making a total height of 176 feet, with an inside diameter of 10 feet. This company has added two new one hundred horse-power boilers to their equipment, which with the eight they formerly had will give them a complete system of ten boilers. The capacity of their machine shop has been doubled and they have added three new drop forges and several machines for hand saws. They are now nearing the completion of a large artificial fuel plant which will cost them in the vicinity of $50,000. Their new office building, 75x40 feet in dimensions and four stories high, is also in process of erection, and they expect it to be completed by Dec. 1st. The first floor in this building will be virtually used as an extension of their present office facilities and will contain the private offices of the officials of the company, as well as the cashier's and bookkeeping departments. The directors' rooms and the purchasing agent's offices will be located on the second floor. The third floor will be used for the advertising department and the fourth floor will contain the filing rooms for statements, records, etc. The total cost of the improvements that this company have made during the past year is $75,000, and those now in process of completion will cost about the same amount more.

ORR & LOCKETT TEAM ARE LEADERS.

The standing of the clubs up to date in the Chicago Hardware Bowling League is as follows:

	Won.	Lost.	Pct.
Orr & Lockett Hardware Co.	7	2	.778
Hibbard-Spencer	6	3	.667
H. Channon Co.	5	4	.556
Scully Steel & Iron Co.	5	4	.556
Am. Car & Foundry Co.	4	5	.445
Crerar-Adams	0	9	.000

CHANGE OF MEETING PLACE.

The meeting place of the North Dakota Association has been changed. The Executive Committee of the North Dakota Retail Hardware Dealers' Association held a meeting recently and decided to change the next meeting place of that association from Grand Forks to Fargo. This convention will be held on Feb. 18th and 19th, 1903. The reason for this change was due to the fact that on these days the North Dakota Grocers' Association and the North Dakota Implement Dealers' Association will hold their conventions at Fargo, and it was thought by the executive committee of the hardware men that if these three organizations met at the same time and place they might secure better railroad concessions.

STEEL GOODS OUTLOOK.

The Iowa Farming Tool Co., Fort Madison, Ia., advise us in a recent favor concerning the steel goods outlook as follows:

"The outlook for the steel goods' business with the manufacturers is very favorable so far as the disposition of their product is concerned. The country is practically bare of steel goods and will take all that the manufacturers can make within the time required. This condition is owing to large sales last year because of low prices and favorable weather conditions, and prices to-day are extremely low, lower than cost of material would justify. We are speaking for the country at large. As for ourselves, our books are now loaded and about to be closed."

NEW RATES ON HARDWARE.

On Oct. 10th at a meeting of the Missouri Valley Hardware Jobbers' Association the freight rate situation was thoroughly discussed, and as a result of this meeting the following new tariff was made by the Maple Leaf road to protect Missouri valley jobbers:

"Tin articles—tinware, enamel ware, stamped ware, galvanized iron ware, straight or mixed car lots, as covered by western classification, Chicago to Missouri river, minimum weight 18,000 pounds, 23 cents; tin cans and lard pails, minimum weight, 16,000 pounds, 23 cents; fruit jars, minimum weight 26,000 pounds, 23 cents.

"Wire fence gates, iron fence posts, wire fence stays, clamps in kegs, barb wire stretchers, lifters and twisters, boxes or bundles, 15 cents; wire cloth or poultry netting, straight or mixed car lots, 15 cents; sad irons, car lots, minimum weight 80,000 pounds, 15 cents; barn door hangers and rail, straight or mixed cars, 15 cents; clevises, minimum weight, 30,000 pounds, 15 cents."

MILWAUKEE DEALERS MEET.

The Milwaukee Retail Hardware & Stove Dealers' Association held a meeting recently at which it was unanimously decided to protest against the advanced price which the repair houses are asking at present for stove repairs. The prices charged, it is said, are not consistent with the repair charges of houses and foundries in other cities.

The following constitution was adopted at this meeting:

CONSTITUTION.

ARTICLE I.

NAME.

This Association shall be known as the "Retail Hardware and Stove Dealers' Association of the City of Milwaukee."

ARTICLE II.

OBJECT.

The Association is organized for commercial and social purposes, and has for its special objects the advancement of the trade in all its latest discoveries of science appertaining to hardware and stove dealers; to promote and combine the

intelligence and influence of members for the protection of the trade against imposition; to encourage National and State Legislation for the furtherance of the interests of just laws; to secure for members of the trade equitable treatment in their dealings with manufacturers and dealers of supplies.

All members pledge themselves not to patronize any department store.

ARTICLE III.

OFFICERS.

The Officers of this Association shall consist of a President, a Vice-President, a Secretary and a Treasurer.

ARTICLE IV.

NOMINATION AND ELECTION OF OFFICERS.

The Officers of the Association shall be named annually, by ballot, at the first meeting in January.

ARTICLE V.

DUTIES OF THE PRESIDENT.

The President shall have the general management of the Association, subject to the Constitution and By-Laws. He shall preside at all meetings of the Association; appoint a revising committee of three members, at the meeting previous to the annual meeting; appoint all other committees not otherwise provided for; see that the Constitution and By-Laws are enforced and generally perform such duties as his position demands.

DUTIES OF VICE-PRESIDENT.

During the absence, illness or disability of the President, the Vice-President shall have similar powers and duties.

ARTICLE VI.

DUTIES OF SECRETARY.

It shall be the duty of the Secretary to collect all dues from members and turn over same to the Treasurer; record the proceedings of the Association in books kept for that purpose, which he shall send or bring to every meeting; read and file all communications and other papers; keep a full roll of of the members and their place of business; conduct the correspondence of the Association; notify members of the time and place of meetings, and also chairmen of committees of such matter as may be referred to them, at the earliest moment thereafter, and perform such other duties incident to his office as may from time to time be required of him, and shall receive for his services such compensation as the Association may determine.

ARTICLE VII.

DUTIES OF THE TREASURER.

The duties of the Treasurer shall be to receive through the Secretary all moneys accruing from every source to the Association. He shall pay all bills against the Association, when duly authorized, and keep a full and accurate account of all moneys received and paid out by him. He shall pay out no money without taking a receipt for the same, and no bill or claim shall be paid by him unless approved by the Association. He shall make a detailed and accurate statement of all receipts and expenditures for each quarterly meeting and also a complete annual report and balance sheet at the end of the year. He shall deposit in a bank (as will be designated by the Executive Committee) the receipts of each meeting, as received by him from the Secretary with all moneys received from other sources, and shall place on the desk of the President at each regular meeting his bank book, showing such deposits. All orders issued to be paid by the Treasurer must be countersigned by the President and Secretary. He shall receive for the faithful performance of his duties such compensation as the Association may determine.

ARTICLE VIII.

DUTIES OF THE EXECUTIVE COMMITTEE.

The Executive Committee shall be composed of all the officers of the Association and three members to be elected by the Association, for a term of three, two and one years. Its duties shall be to examine into charges preferred against members, call special meetings whenever it be deemed expedient, and exercise general jurisdiction over the affairs of the Association, when such is not inconsistent with the Constitution and By-Laws.

ARTICLE IX.

VACANCIES OF OFFICERS OR COMMITTEES.

Any vacancies that may occur in any of the Officers or Committees shall be filled by appointment, for the unexpired term, by the President.

ARTICLE X.

QUALIFICATION OF MEMBERS.

All dealers that are creditably conducting hardware and stove business in a permanent location are eligible for membership in this Association.

ARTICLE XI.

SPECIFICATION OF MEMBERSHIP.

Members of firms or corporations shall be recognized on the floor of the Association, and the firm or corporation name appear on the roster of the Association, so long as the said member is actively interested in said firm or corporation. Only one membership can at any time be held by a firm or corporation.

ARTICLE XII.

ELECTION OF MEMBERS.

The name of any person wishing to join the Association must be proposed by one member on the blanks as provided for that purpose. The proposal shall state his full name, place of business and be accompanied by the initiation fee, and then be referred to the Executive Committee for investigation. If the report be favorable, action can be taken at the same meeting by vote.

All members to be elected by a two-thirds vote.

ARTICLE XIII.

DUTIES OF MEMBERS.

Every member, on his election, shall be required to sign the roll. He shall receive a copy of the Constitution and By-Laws and pledge himself solemnly to abide by them, and also pursue such honorable line of conduct as is expected from members of respectable organizations.

ARTICLE XIV.

INITATION FEES.

The initiation fee shall be $1.00; dues $2.00 per annum, payable quarterly in advance to the Secretary of the Association.

ARTICLE XV.

ALTERATIONS AND AMENDMENTS.

All proposed alterations or amendments to the Constitution shall be submitted to the Association in writing at a regular meeting and then lie over until the second meeting following. Due notice containing copy of such alterations or amendments shall be mailed to each member at least one week previous to the meeting at which action is to be taken thereon. Such alteration or amendment must be sustained by a three-fourths vote of the members present.

ARTICLE XVI.

QUORUM.

Seven members present at any meeting shall constitute a quorum for transaction of the business of the Association.

The membership roster of this association is as follows:

A. L. Kiefer & Co., 435 Milwaukee street.
Herman Dietrich, 1324 Fond du Lac avenue.
Robert Reinhold, 2225 Lisbon avenue.
Jac. Kornely, 806 Third street.
Stollenwerk Bros., 938 Kinnickinnic avenue.
H. N. Krogman, 449 Eleventh avenue.
Dobl & Busse, 405 Grove street.
Simon Fink, 1032 Greenfield avenue.
Marschalck & Weiss, 1117 Vliet street.
F. C. Burr & Sons, 773 Teutonia avenue.
J. G. Trentlage, 389 Grove street.
W. G. Grosjean, 3125 Lisbon avenue.
F. Paulus Hardware Co., 310 Chestnut street.
Aug. Gemmler, 2023 Fond du Lac avenue.
Geskermann Bros., 509 Second avenue.
M. John, 743 Third street.
J. Prasser, 2808 Lisbon avenue.
A. Clausing, 1089 Third street.
Aug. Braun, 1608 State street.
C. D. Brenner, 703 Center street.
Henry Vetter, 980 Holton street.
Aug. Graunke, 2806 Vliet street.
G. Radditz, 1920 Vliet street.
F. Uecke & Son, 533 Twelfth street.
F. R. Pierce, 2918 St. Paul avenue.
O. Richter, 599 Seventh street.
Pritzlaff Bros., 171 Reed street.
C. C. Sherdin, 2009 Vliet street.
M. Meacle, 607 Grand avenue.
H. B. Bartelson, 901 National avenue.

Heating and Ventilating.

A. W. Davis, B. F. Clark and John Perswinter are the incorporators of the H. W. Davis Plumbing and Heating Co., Colorado City, Col., capitalized at $10,000.

The Utica Heater Co., Utica, N. Y., with Chicago office at 33 Dearborn street, are manufacturers of the Superior warm air furnaces, Utica heaters, Imperial Keystone and Auburn boilers and Keystone radiators. In anticipation of a fall rush this firm have laid in a large stock of furnaces the past year and are in a position to make shipments the same day the order is received.

KELSEY HEATING.

The Kelsey Heating Co., Syracuse, N. Y., favor us with a copy of their pretty book No. 5, published in the interests of the Kelsey warm air generator. The principle on which this heater is constructed is the warming of great volumes of air by bringing them into actual contact with extensive heating surfaces. This is brought about by sending the air in separate channels through corrugated cast-iron flues or sections which surround the fire. The air is divided into as many distinct currents as there are sections, and hence is very evenly and thoroughly heated. The ash pit in this furnace is fitted to the base with a cup joint. The sides of the ash pit are straight and an ash pan can be used if desired.

The grates are of the Smyth pattern. A cast-iron pot ring three and one-fourth inches wide is fitted in a cup joint to the ash pit. The lower deck rests on this pot ring and supports the sections above which fit into it with deep cup joints. The long hollow cast iron sections with corrugated sides are "V" shaped, and they form, when in position, the combustion chamber.

The face or straight lower parts of the sections forming the fire cylinder, are four and one-half inches wide, twelve inches long, and one and one-eighth inches thick.

Each section has an average inside measurement, at the lower end, of thirty-six square inches, and at the upper end, where the heated air is discharged, of forty-six square inches.

The average length of all sections is thirty-six inches and the average weight is about seventy pounds and each section has eight square feet of heating surface.

The horizontal corrugations are patented and give to the Kelsey some peculiar advantages.

The corrugations are on the inside of the sections as well as the outside and cause the air, in passing through, to deflect from a straight course and to become more thoroughly mixed, thereby bringing more of the air particles into contact with the heated surfaces than would be possible with any other construction, it is claimed.

At the back the sections overlap each other, confining the fire within, but at the top, between the sections, there is six inches of space left open, thus permitting the products of combustion to escape to the draft chamber.

Thus the sections which are in direct contact with and overhang the fire, are heated their entire length and on all sides, and get the greatest possible benefit available from a given amount of fuel, it is claimed. The heated air rises with great velocity in these separate currents to the top of the generator and readily takes the nearest heat-conducting pipes to the rooms to be heated.

The sections are held in position at the top by an upper-deck ring, which is fitted to each section with a deep cup joint. The upper and lower decks, with the sections between, are securely fastened together by heavy iron rods or bolts: These pass through the air chamber of the sections.

The inside casing is of heavy, refined iron, and extends from the lower-deck flange to the upper deck, and confines the product of combustion. Between the backs of the sections and the inside casing there is a space of four inches which forms the draft chamber.

The indirect draft is located in the lower cast-iron deck flange and provides for a long down draft. This is a feature peculiar to the Kelsey and particular attention is called to the manner in which the hot gases, brought out from the combustion chamber between the sections at the top are compelled to come into contact with the backs of the sections and the inside casing, thus extracting all the heat possible before making their escape to the indirect draft flue.

The baffle plate, located in the draft chamber, between the direct and indirect draft, serves to distribute the heat more evenly over the sections and is also a further aid in retaining all the heat in the generator until fully utilized.

The outside casing is of galvanized iron and the upper half is lined with asbestos sheathing, and this in turn with tin. Between the inside and outside casing there is a space of three inches. This is an air chamber and is open to the fresh air supply below, and to the hot air pipes above. One of these books will be furnished the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

A. S. H. AND V. E. WILL MEET.

The date has been set for the annual meeting of the American Society of Heating and Ventilating Engineers. This association will meet in New York city on Jan. 20, 21 and 22, and this meeting of theirs promises to be the most successful they ever held. There will be an afternoon and evening session on Jan. 20, an afternoon session Jan. 21, banquet on the evening of Jan. 21, and a morning and afternoon session on Jan. 22.

CONTAINS A VAST AMOUNT OF MATTER.

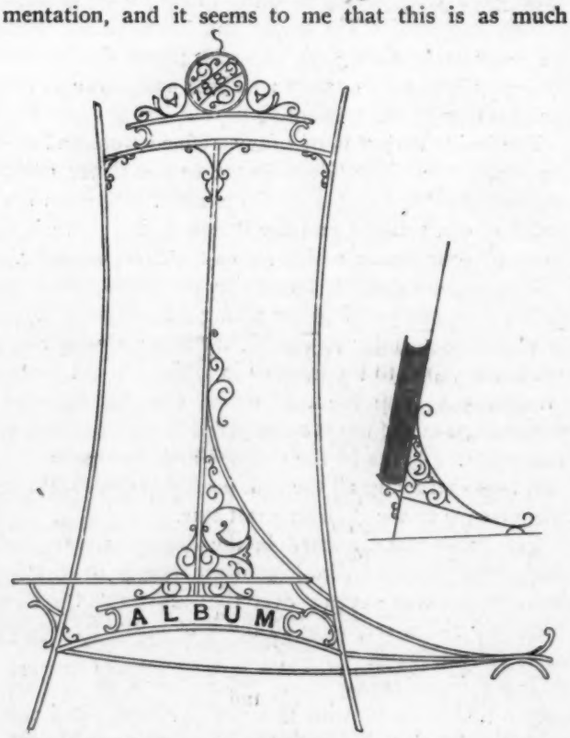
The Canadian Manufacturer of Oct. 5 says:

"The Manual of Business just issued by Daniel Stern of Chicago, is a valuable publication of its kind, containing in its some 250 pages a vast amount of matter for the business man."

Tinshop.

A TASTEFUL BOOK RACK.

The illustration herewith may serve to amuse some of the boys during their leisure time. The construction may seem easy, but things are not always so plain as they appear. If any of the craftsmen have any similar designs, I would like for them to bring them out through your columns. It is always pleasant for the folks at home to have new designs in house ornamentation, and it seems to me that this is as much



of a necessity as any of the useful utensils of the household. "S. R. E."

Chicago, Oct. 10, 1902.

RETURNING SODA WATER TANKS.

TO THE AMERICAN ARTISAN.

I have some soda water generating tanks to be retinned inside with block tin to prevent the acid from pitling the copper. Can some of the craft give me a tip on the job and oblige. C. F. HANE.

Republic, Kan., Oct. 9, 1902.

NEW CREAM SEPARATOR.

The Milwaukee office of the National Enameling & Stamping Co. send us a circular describing the new National cream separator this firm are now making. This separator has improved, retinned, stamped, reversible cover and strainer with 4¾ inch branch strainer cloth, heavy retinned steel hoops on bottom and top of body, improved, retinned, malleable drop handles and stamped tapering bottoms.

NOTES AND QUERIES.

PIPE MANUFACTURERS IN CENTRAL STATES.

From F. A. Booth Co., Stanley, N. Y.

Q.—Would you kindly give us addresses of leading pipe manufacturers in the territory between Buffalo and Chicago?

A.—The Addyston Pipe & Steel Co., Cincinnati, O.; Buffalo Cast Iron Pipe Co., Buffalo, N. Y.; Detroit, Pipe & Foundry Co., Detroit, Mich.; Illinois Malleable Iron Co., 30 W. Monroe st., Chicago; Lake Shore Foundry Co., Cleveland, O.; Jos. Leffel & Co., Springfield, O.; Michigan Pipe Co., Bay City, Mich.; Murry-Curr Mfg. Co., Ft. Wayne, Ind.; the Nelsonville Foundry & Machine Co., Nelsonville, O.; Ohio Pipe Co., Columbus, O.

SOAPSTONE PANCAKE BAKER.

From D. E. Brunskill, Hawarden, Ia.

Where can I buy a soapstone pancake baker?

(Can any of our readers answer this question?)

FAULTLESS STEEL RANGE.

From S. A. Johnson & Co., St. Charles, Minn.

Who makes the Faultless steel range?

Ans.—Faultless Mfg. Co., Chicago.

MANUFACTURERS OF WICKLESS BLUE FLAME OIL COOKING STOVES.

From William Poore & Co., London, E. C. England.

Would like the names of manufacturers of wickless blue flame oil cooking stoves?

Ans.—Cleveland Foundry Co., Cleveland, O.; A. C. Barler Co., Chicago; Central Oil & Gas Stove Co., Gardner, Mass.; R. E. Dietz Co., New York, N. Y.; Dangler Stove & Mfg. Co., Cleveland, O.; Durand Mfg. Co., Medinah, O.; Enterprise Gas Stove Mfg. Co., New York, N. Y.; Glazier Stove Co., Chelsea, Mich.; Novelty Mfg. Co., Jackson, Mich.; National Vapor Stove Co., Lorain, O.; Standard Blue Flame Oil Gas Co., Dover, Del.; Schneider & Trenkamp Co., Cleveland, O.; Standard Lighting Co., Cleveland, O.; Twin Burner Vapor Stove Co., St. Louis, Mo.

RUBEROID ROOFING.

From Falb & Stanhope, Ceylon, Minn.

Where can we buy Ruberoid roofing?

Ans.—Standard Paint Co., New York and Chicago.

PIPE MACHINE & MANUFACTURING.

From "Reader," Denver, Colo.

Would like address of Pipe Machine & Mfg. Co.

(Can any of our readers give the desired information?)

CORRESPONDENCE SCHOOL OF PHOTOGRAPHY.

From W. R. Butler, Anamosa, Ia.

Can you give me the address of a correspondence school of photography?

(Can any of our readers answer this question?)

ITEMS.

The Elwood, Ind., tin-plate plant has opened up.

A new slate company is being incorporated at Martinsburg, W. Va.

The American Can Co. are erecting a six-story building, 82x164 feet in dimensions, at Cleveland, O.

O. L. Doward, a Leaf River, Ill., tinner, was married recently at Elkhart, Ind., to Mrs. Laura D. Weedge of that place.

M. H. Simmons, F. E. Smith and A. F. Tompkins are the incorporators of the Enameled Steel Sign Co., Chicago, Capitalized at $2,500.

J. H. Boyd, E. Peissmer and M. J. Dain are the in-

corporators of the United States Sheet Steel Co., Camden, N. J., capitalized at $150,000.

It is said that the F. R. Phillips & Son Co., Philadelphia, have just received the contract for the erection of some large tin-plate mills in Italy.

Merchant & Co., Inc., Philadelphia, send us a leaflet calling attention to the fact that they handle copper in tubes, rods, wire, sheets, rivets, pipe, etc.

The Pope Tin Plate Co., Pittsburg, expects to employ 500 hands when running full. They expect their output will be 600,000 boxes annually.

H. B. Lappe, A. J. Shirk and Winthrop Allen are the incorporators of the Kansas City Standard Roofing Co., Kansas City, Mo., capitalized at $10,000.

J. C. Painter, C. C. Ross, Geo. A. McLean, W. O. Bollinger and Nelson McVicker are the incorporators of the Sheet Steel Co., Pittsburg, Pa., capitalized at $50,000.

The Union Trust Co. of Indianapolis has been appointed as receiver for the McElwaine-Richards Co. of Noblesville, Ind., who operated an enameling works and foundry.

It is said that a number of tinplate workers located in the gas belt of Indiana, are purchasing stock in the recently incorporated Pacific Tinplate Co., at Los Angeles, Cal., capitalized at $300,000, under the laws of South Dakota.

The American Tin Plate Co. and the Amalgamated Association of Iron, Steel and Tin Plate Workers are still having fruitless conferences over the acceptance by the latter of a 25 per cent reduction in wages in order to secure the order of the Standard Oil Co. for 1,500,000 tons yearly.

The Globe Ventilator Co., Troy, N. Y., are manufacturers of the Globe ventilator in brass, copper, galvanized iron and with glass tops for skylight purposes. This ventilator is designed for perfectly ventilating schools, churches, halls, mills, factories and audience rooms of every character.

The Canton Steel Roofing Co., Canton, O., offer the trade a large assortment of artistic classified designs. All the joints fit tight, requiring no putty to close cracks. All the plates are resheared on every side and all parts are interchangeable one with the other, making them easy to erect.

The American Tinplate Co. resumed work on their McKeesport, Pa., plant on Oct. 15th on double turn. This plant has been shut down for seven weeks past in all departments, except three of the small sheet mills. During the shut down, five new sheet mills have been erected and their old mills have been practically rebuilt.

Friedley & Voshardt, 194-202 Mather street, Chicago, make a full line of art metal ceilings for interior decoration. Their specialties include steel ceiling, zinc and copper ornaments, stationary in bronze, zinc and copper, crestings, finals, capitals, galvanized steel horses for merry-go-rounds, copper plated ceilings in antique finish, etc.

The Illinois Roofing & Supply Co., 23 East Lake street, Chicago, handle the "Jessie Extra Coated," bright finish, well mottled roofing plate. This plate has a nice mottle finish on the bright order. It has fully 20 pounds of coating and is stamped and resquared. This firm carry a large stock and can make immediate shipments.

A special meeting of the Amalgamated Association of Iron, Steel and Tin-Plate Workers will be held at Pittsburg October 20 to reconsider the proposition submitted by the American Tin-Plate Co. to make the cut of 25 per cent in wages in order to secure the order of the Standard Oil Co. for 1,500,000 boxes of tin-plate now made in Wales.

E. P. Douglas, Theodore F. Nason, Philip Zenn, J. C. Smith, J. E. Lauck, John W. Facett, Edward R. Crawford and William Curry are the directors of the McKeesport Tin Plate Co., McKeesport, Pa. They were elected at a meeting of the stockholders held October 10th. This company is erecting a ten-mill tin-plate plant at Lynch Station, Pa.

The Milwaukee Corrugated Co., Milwaukee, Wis., are manufacturers of roofing, eaves trough, conductor pipe (round and square), elbows, hangers, corrugated cut-offs, conductor hooks, trimmings, cornices, steel roofing (all kinds), corrugated iron, curved iron, crimped iron, brick siding, rock face, beaded iron, metal shingles, ceilings, tinplate, galvanized iron and solder.

The cornice business of M. L. Jennings, formerly located at 621 Larrabee street, Chicago, has been transferred to R. J. McIlroy and J. H. McIlroy, proprietors of the McIlroy Cornice Works, 1521 State street, Chicago. These latter gentlemen have formed a new company, capitalized at $6,000, to be known as the McIlroy-Jennings Cornice Works for the manufacture of cornices, and also for slate and tile roofing.

The Clayton & Lambert Mfg. Co., Detroit, Mich., send us a circular calling attention to their No. 22 candle, which burns gasolene or kerosene and will be found useful wherever a portable light is desired. It can be carried in the pocket, as it is 1¾ inches is diameter and 6½ inches high. The tank is drawn out of heavy brass, free from seams. The burner screws on the top, making a tight joint. All parts are brass.

The Berger Mfg. Co., Canton, O., can make quick shipments on black or galvanized sheets, steel roofing and siding of all kinds or gauges, tin and terne plate, solder, metallic shingles, fireproof shutters, skylights, cornices, ventilators, eave troughs, conductor pipes, hangers, cut offs, mitres, paints, nested stove pipe, continuous roll roofing, felt and lining papers, awnings, tubular lanterns, lamps, torches, oil cans, spray and well pumps.

The J. M. & L. A. Osborn Co., Cleveland and Columbus, O., make a specialty of furnace men's supplies. They furnish heater pipe plates in the following sizes: 1C 20x26, 1C 20x28, 1C 20x29½, 1C 20x32½, IXL 20x28, IXL 20x29½, IXL 20x32½, IXL 20x39, IX 20x28, IX 20x32½ and IX 20x39. Other of their goods are asbestos cement, paper and Anchor paste, Excelsior and Perfection hot air pipe, jack chains, pulleys, U. S. dampers and clips, hot air registers, ventilators and face plates.

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Kees, F. D. 50

Cornice Brakes.
Dries, Andrews & Krump 46

Cornices.
Berger Mfg. Co. 45
Canton Steel Roofing Co. 44
Galesburg Cornice Works 52
Garry Iron & Steel Roofing Co. 43
Illinois Roofing Co. 43
Milwaukee Corrugating Co. 43

Cornice Ornaments and Statuary.
Friedley & Voshardt 44

Cream Separators.
Galesburg Cornice Works 52
Seither & Cherry 52
Lugibihl, A. D. 52
Sanitary Cream Separator Co. 52

Cutlery.
Smith & Hemenway Co. 51

Drills.
North Bros. Mfg. Co. 50

Eave Troughs.
Berger Bros. Co. 55
Berger Mfg. Co. 45
Canton Steel Roofing Co. 44
Clark, Quien & Morse 46
Garry Iron & Steel Roofing Co. 43
Illinois Roofing & Supply Co. 43

Elbow Patterns.
McFarland, J. M. 44
Gray, G. L. 42

Elevators.
Kimball Bros. 55

Excelsior.
Theo. P. Huffman & Co. 56

Enamel Ware.
Cleveland Stamping & Tool Co. 52
Nat. Enameling & Stamping Co. 54

Faucets.
Clark Novelty Co. 2

Fencing
Denning Fence Works 42
Twin City Fence and Wire Works 52

Files.
Barnett, G. & H. Co. 1
Disston, Henry & Sons 51
Nicholson File Co. 1

Fire Arms.
Farwell, Ozmun & Kirk 53
Peters Cartridge Co. 53
Stevens, J. Arms & Tool Co. 56

Fire Pots.
Clayton & Lambert 52

Flue Stoppers.
Welling Mfg. Co. 55

Foundry Supplies.
Obermeyer, S. & Co. 17

Fruit Press.
Enterprise Mfg. Co. of Pa. 51

Furnace Cement.
Connors, Wm. Paint Mfg. Co. 1

Furnace Pipe.
Safety Furnace Pipe Co. 12

Furnaces—Tinners.
Clayton, Lambert & Co. 52
Burgess Soldering Furnace Co. 46

Furnaces—Warm Air.
Bergstrom Bros. & Co. 11
Boynton Furnace Co. 12
Brand Stove Co. 15
Bryce Heating & Ventilating Co. .. 14
Clark, W. A. & Co. 11
Detroit Heating & Lighting Co. 7
Forest City Foundry & Mfg. Co. .. 13
Meyer Furnace Co. 11
Monroe Furnace & Foundry Co. 12
Mueller, L. J. Furnace Co. 13
Smith, Chas. Co. 2
Utica Heater Co. 11

Gas Engines.
Weber Gas and Gasoline Engine Co. 53

Gasoline Engines.
Weber Gas and Gasoline Engine Co. 53

Hardware Specialties.
Atkins, E. C. & Co. 56
Atlas Mfg. Co. 1
Atlas Bolt & Screw Co. 1
Berger Bros. Co. 55
Briscoe Mfg. Co. 17
Forbes Chocolate Co. 42
Iwan Bros. 55
Lee-Glass-Andreesen Co. 54
Litchfield, T. M. 46
Lufkin Rule Co. 55
Nat. Enameling & Stamping Co. .. 54
Plume & Atwood Mfg. Co. 2
North Bros. Mfg. Co. 50
Smith & Hemenway Co. 51
Sperry, D. R. Co. 55
Stanley Rule & Level Co. 51
Stengel Mfg. Co. 56
Tower Mfg. Co. 53

Hay Knives.
Iwan Bros. 55

Heaters—Hot Water and Steam.
American Radiator Co. 2
Boynton Furnace Co. 12
Kewanee Boiler Co. 2
Smith, Chas. Co. 2
Stolz, Frank D. 2
Vance Boiler Co. 2

Heating Devices.
Aeolipyle Co. 17

Hot Air Registers.
Ferrosteel Co. 14
Henry & Scheible Co. 14
Independent Register Co. 1
Stolz, Frank D. 2

House Furnishing Goods
Cleveland Stamping & Tool Co. 52
Enterprise Mfg. Co. of Pa. 51
Nat. Enameling & Stamping Co. .. 54
Sperry, D. R. & Co. 55

Incandescent Gas Lamps.
Best Light Co. 51
Chicago Solar Light Co. 2
Detroit Heating & Lighting Co. .. 7

Knives.
Smith & Hemenway Co. 51

Lanterns.
Berger Mfg. Co. 45
Dietz Co., R. E. 50

Laundry Stoves.
Richmond Co. 9

Lawn Mowers.
Philadelphia Lawn Mower Co. 42

Lawn Sprinklers.
Smith & Hemenway Co. 51

Metal Shingles.
Cortright Metal Roofing Co. 55
Garry Iron & Steel Roofing Co. 43

Metal Workers' Patterns.
McFarland, J. M. 44

Metals—Perforated.
Aitchison, The Robert Perf'd Metal Co. 49

Metallic Shutters.
Berger Mfg. Co. 45
Canton Steel Roofing Co. 44
Garry Iron & Steel Roofing Co. 43

Mica.
Munsell, Eugene & Co. 49

Mitre Boxes.
Smith & Hemenway Co. 51

Nail Pullers.
Smith & Hemenway Co. 51

Nickel Plating Outfits.
Zucker Levett & Loeb 46

Oven Thermometers.
Evans Stamping and Plating Co. .. 49

Paints.
Buckeye Paint & Varnish Co..... 46
Connors, Wm. Paint Mfg. Co..... 1
Dixon, Jos. Crucible Co..... 42
Forest City Paint & Varnish Co.. 46

Plyers and Nippers.
Smith & Hemenway Co..... 51

Polish.
Aluminine Paint and Polish Co... 42
Hoffman, Geo. W..... 48

Post Hole Augers and Diggers.
Iwan Bros..... 55

Radiators.
American Radiator Co..... 2
Eichhorn, Aug..... 42
Independent Register Co..... 1
Rochester Radiator Co..... 13
Selleck, A. C..... 17

Razors.
Smith & Hemenway Co..... 51

Refrigerators.
Wilkie Mfg. Co..... 42

Registers.
Canton Steel Roofing Co..... 44
Ferrosteel Co..... 14
Henry & Scheible Co..... 14
Independent Register Co..... 1

Roofing.
Berger Mfg. Co..... 45
Canton Steel Roofing Co..... 44
Cortright Metal Roofing Co..... 55
Eller, J. H. & Co..... 44
Garry Iron & Steel Co..... 43
Galesburg Cornice Works..... 52
LaCrosse Steel Roofing Co..... 45
Osborn, The J. M. & L. A. Co..... 56
Perkins, J. L. & Co..... 1
Sykes Steel Roofing Co..... 42

Roofing Slate.
Johnson, E. J. & Co..... 1

Sash Balance.
Pullman Sash Balance Co..... 53

Sash Locks.
Harley Burglar Proof Ventilating Sash Lock Co..... 55

Saws.
Atkins, E. C. & Co..... 56
Disston, Henry & Sons..... 51

Saw Sets.
Disston, Henry & Sons..... 51
Smith & Hemenway Co..... 51

Scales.
American Cutlery Co..... 50
Pelouze Scale and Mfg. Co..... 50

Shears and Gang Punches
Bertsch & Co..... 46

Screw Drivers.
North Bros. Mfg. Co..... 50
Smith & Hemenway Co..... 51

Skylights.
Burton, W. J. & Co..... 13
Canton Steel Roofing Co..... 44
Friedley & Voshardt..... 44
Illinois Roofing Co..... 43
Garry Iron & Steel Co..... 43
Jones, J. H..... 2

Skylight Gearing.
Weiss H. & Co..... 42

Slate Machines.
Dwight Slate Machine Co..... 43

Snow Shovels.
Kohler, F. E. & Co..... 47

Sporting Goods.
Peters Cartridge Co..... 53
Stevens, J. Arms & Tool Co..... 56
Farwell, Ozmun & Kirk..... 53

Stove Bolts.
Atlas Bolt & Screw Co..... 1

Stove Casters.
Independent Register Co..... 1

Stove Lining.
Connors, Wm. Paint Mfg. Co..... 1
Bridgeport Crucible Co..... 49

Stove Patterns.
Cope, Geo. W. Pattern Works..... 49
Gobeille Pattern Works..... 49
Pennsylvania Artistic Pattern Works..... 47
Weller Pattern Co..... 49

Stove Pipe.
Clausing, A. & Co..... 50

Stove Polish.
Aluminine Paint and Polish Co... 42
Ayling Bros..... 47
Dixon, Jos. Crucible Co..... 42
Nickel Plate Stove Polish Co..... 16
Wynn, Lewis D..... 48

Stove Putty.
Conners, Wm. Paint Mfg. Co..... 1

Stove Repairs.
Brauer, A. G..... 49
Brucker M..... 49
Dust, Wm. T. Co..... 49
Howes, S. M. Co..... 15-48-49

Stoves and Ranges.
Beckwith, Estate of P. D..... 18
Brand Stove Co..... 15
Briscoe Mfg. Co..... 17
Champion Steel Range Co..... 15
Chicago Stove Works..... 3
Fuller-Warren Co..... 8-9
Galusha Stove Co..... 7
March, Brownback Stove Co..... 14
Neill Stove Co..... 14
Pittsburgh Stove & Range Co..... 6
Richmond Co..... 15
Van, John Range Co..... 6
White, Thos. Stove Co..... 4-5
Willard, Wm. G..... 16

Stove Trimmings.
Atlas Bolt & Screw Co..... 1
Columbus Bolt Wks..... 1
Howes, S. M. Co..... 15-48-49
Richmond Co..... 15
Sayre Stamping Co..... 47

Stove Trucks.
Howes, S. M. Co..... 15-48-49

Tacks.
Tower Mfg. Co..... 53

Tape Measures.
Lufkin Rule Co..... 55

Tinners' Tools and Supplies.
Berger Bros. Co..... 55
Burges Soldering Furnace Co..... 46
Gorman, Jas. F..... 42
Lufkin Rule Co..... 55
Perkins, J. L. & Co..... 1
Stanley Rule & Level Co..... 51
Weiss H. & Co..... 42

Tinplate.
American Tinplate Co..... 43
Illinois Roofing & Supply Co..... 43
McClure & Co..... 56
Osborn, The J. M. & L. A. Co..... 56

Tinware.
Cooney & Geiger..... 56
Nat. Enameling & Stamping Co..... 54

Vapor Lamps.
Chicago Solar Light Co..... 2

Ventilators.
Berger Bros. Co..... 55
Berger Mfg. Co..... 45
Burton, W. J. & Co..... 13
Canton Steel Roofing Co..... 44
Ferrosteel Co..... 14
Garry Iron & Steel Roofing Co..... 43
Globe Ventilator Co..... 56
Henry & Scheible Co..... 64
Iwan Bros..... 55

Washing Machines.
Brammer, H. F. Mfg. Co..... 52
Clark, Quien & Morse..... 52

THE WORLD'S COAL PRODUCTION.

The production of coal last year in Great Britain was 219,047,000 tons; in the United States, 260,929,000 tons; in Germany, 108,417,000 tons, and in France, 31,618,000 tons. The amounts produced in 1901 were in most cases less than in the preceding year, although the United States continue to increase, and have now for three consecutive years exceeded the United Kingdom. The total known production of the world, exclusive of brown coal, was nearly 700,000,000 tons. Compared with the population, the production of Great Britain surpasses that of the United States. It amounted to 5½ tons per head in 1900, and 5¼ tons in 1901, as against 3½ tons for the United States, Germany less than 2 tons, and France about four-fifths of a ton per head. The average value of coal per ton taken out of the collieries of Great Britain was $2.64; Germany, $2.15; France, $2.92, and the United States, $1.27. These averages in all cases were higher than the preceding year.

SMALL DEPOSITORS.

One of the results of the general growth of trust companies and of their competition with banks is found in the change of policy adopted by many large financial institutions who were formerly averse to accepting small accounts. Several banks have cut their balance limit in half, and at least one New York financial institution which formerly required a balance of $1,000 is now gladly accepting accounts of $200. The advisability of securing small accounts was demonstrated during the recent flurry in the money and stock markets, when many of the largest depositors suddenly turned borrowers, and balances of several hundred thousand dollars were temporarily wiped out. The bank officials who are in favor of this new policy realize that there is not much profit for the time being in these small accounts, but they are inclined to take the long-sighted view that connections of this sort will eventually prove of advantage, and that small merchants and other business men of moderate means who at present keep but insignificant balances will sooner or later, in the natural course of events, increase their accounts to substantial proportions.—The Financial Age.

OUGHT TO HAVE A WIDE CIRCULATION.

The Age of Steel of Oct. 4 says:

"'The Manual of Business' is a new book which ought to have a wide circulation among retail merchants generally. It is, in short, a collection of correct business forms for executing all commercial instruments, commercial data, and advice on the thousand and one questions of correct methods that are constantly arising in every day business life. Compiled from various sources by Sidney P. Johnston, Daniel Stern, publisher, 69 Dearborn street, Chicago. The compiler has done his work well, and the work will undoubtedly prove invaluable to thousands of young business men, especially in acquainting them with the forms in use in commercial life. The book is substantially bound and neatly printed, and is also provided with a complete alphabetical index, making reference easy for the user. The closing pages of this valuable manual are occupied with a collection of business maxims, why business men fail and general maxims of conduct and life—a fitting close to an interesting book."

Trade Report.

CHICAGO IRON MARKET.

The market is strong. From several large furnaces it is reported that the greatest difficulty that they have to meet is the scarcity of cars, which makes it impossible to operate at full capacity. The demand for spot is good and what domestic spot offered is easily disposed of.

A representative of one of the largest iron companies stated this morning that the strike of coal miners was having no direct effect at present on the local market, supply of coke being sufficient if the railway companies could furnish ample transportation.

The strike of miners in Alabama has caused the prices on southern iron to vary. Foreign iron is in good demand by foundrymen that are experienced in using it and who have overcome the difficulties that at first confronted them.

WIRE NAILS.

The volume of business during the week has been with the large manufacturers, the independent mills securing very few large orders. Few sales were reported at less than $2 in carload lots, but that figure is the ruling price, small quantities being sold at $2.10. Jobbing trade has been light.

CUT NAILS.

The market shows decided improvement and a fair amount of business was booked. Prices, carload lots, are $2.10 to $2.15 and less quantities $2.20 to $2.25.

BARB WIRE.

Business is reported of good volume by the large manufacturers. Prices have been firm. We quote galvanized at $2.60 carload lots, $2.70 less quantities. Painted at $2.30 carload lots and $2.40 in less quantities.

PLAIN WIRE.

A fair amount of business has been booked during the week, but most orders being placed on old contracts. Carload lots, track, are quoted at $1.90 and less quantities $2 from store.

WROUGHT IRON HINGES.

An increased discount is announced by jobbers on wrought iron hinges. Prices now quoted are: Light strap, 70, 25 and 10 per cent; heavy strap, 75, 10, 25 and 10 per cent; light T, 66 2-3, 25 and 10 per cent; heavy T, 65, 5, 25 and 10 per cent; extra heavy T, 75, 25 and 10 per cent; corrugated heavy strap, 75, 10, 25 and 10 per cent; corrugated extra heavy strap, 75, 25 and 10 per cent.

HASPS.

Wrought hinge hasps are quoted at 50, 25 and 10 per cent.

BOLTS.

Carriage bolts are to-day quoted at 65 per cent discount. All other bolts are unchanged.

TACKS.

The discount on American cut tacks is 90 and 5 per cent; other tacks the same as last week's quotations.

STONES.

Prices now quoted on scythe stones are: Black diamond, $7.75 per gross; clear grit, $4.50; Gem corundum, $7.50; Green Mountain, $4.20; La Noille, $7.00; Pike's Gen. No. 1, Ind. Pond., $4.75; White Mountain, $6.50; Willoughby Lake, $6.25; Red End, $3.15.

WIRE.

Market wire discounts are announced to-day as follows: Bright, full bundles, 75 and 2½ per cent; bright, broken bundles, 70, 10 and 5 per cent; coppered, full bundles, 70 and 7½ per cent; coppered, broken bundles, 70 and 2½ per cent; tinned, full bundles, 70, 10 and 2½ per cent; tinned, broken bundles, 70 and 5 per cent.

SAD IRONS.

No changes in prices on sad irons have been made except Chinese polishing, which are quoted at $7.25 per dozen.

LINSEED OIL.

The price of linseed oil continues to drop. Strictly pure boiled is to-day quoted at 45c per gal. and raw at 44c per gal.

SHEETS.

Prices are unsteady and subject to change. Heavy gauges are in good demand. The cut made in light-gauge sheets has caused an increased request for them. Store trade is active. We quote: No. 27 Hock, 2.80c to 2.90c; galvanized, 3.95c to 4.05c; stove, No. 27 black, 3.05c to 3.15c; galvanized, 75 to 75 and 5 per cent.

SHEETS.

The demand for sheets is so great that all manufacturers are rushed to full capacity. Prices are naturally firm. The entire output for 1903, it is said, could be sold in a few hours. We quote, future shipments: Tank steel, ¼ inch and heavier, 1.75c to 2c; flange steel, 1.85c to 2.10c; from stock, tank steel, ¼ inch and heavier; 2.25c to 2.40c; 3-16, 2.35c to 2.50c; No. 8, 2.40c to 2.60c; flange steel, 2.50c to 2.65c. We would note that though there has been no change from the mill price of 1.75c, independent mills able to give prompt delivery are asking not less

than 2c to 2.10c for delivery within the next three to six months.

ANTIMONY.

Antimony is in quiet request. Prices are firm. We quote: Cookson's, 9½@9¾c; Hallett's, 7¾@8c; United States Star and other brands, 7¼@7¾c.

PLATINUM.

Market is $19 per oz in New York. London prices are about equal with domestic market. Chemical ware, best hammered metal from store, is quoted at 73½c per gram.

NICKEL.

Nickel at present is quoted from 40 to 47 cents per pound for large quantities down to ton lots, according to size and terms of order, the price for smaller lots according to quantity, running as high as 60 cents per lb.

QUICKSILVER.

Quicksilver is reported in good demand with prices unchanged. New York at $48 per flask for large lots; small orders more; San Francisco, $45.50@46.50, domestic orders; export, $44; London, £8 15s.

ALUMINUM.

Prices are steady. The request is quiet. We quote: No. 1 ingots, 33@37c per lb; No. 2, 31@34c; rolled sheets, 40c and up.

TIN.

Tin is firmer. Sales are light. The coal strike has had a depressing effect. The falling off in the American consumption is principally the result of the tinplate and canning goods situation, and it is difficult to see where a settlement of the coal strike will immediately help the two interests. We quote: New York, round lots, spot, 25.30@25.50c; futures, 24.75@25c; jobbing, ¼@½c more. London was last cabled firm at £116 12s 6d for spot and £115 17s 6d for futures.

TIN PLATES.

Tin plates are steady. The prices remains unchanged. We quote: Melyn, $6.50@7; Alloway, $5.75@6.25; coke, $4.87½@6.50; terns, $5.25@8; additional X, $1.50@1.75 more.

LEAD.

Various markets are reported quiet but firm. We quote: Lean remains unchanged: Round lots, New York, 4.12½@4.15c; jobbing, ¼@½c more. London, £10 15s; St. Louis firm at 4@4.02½c. Manufactured: Pipe, 6½c; sheet, 7¼c; tin pipe, 50c; tinlined pipe, 12½c; old lead, in exchange, 3¾c; tea, 3¼c.

SPELTER.

The local market has been free from any marked features. Prices are quiet and unchanged. We quote: Round lots, New York, 5.45@5.50c; Boston, ¼@½c more; sheet zinc, cask lots, 6½@6¾c; small lots, 7¼@7½c. St. Louis market is quoted at 5.17½@5.20c. London, £19 7s 6d.

BLACKSMITHS' MATERIAL.

The market continues quiet. Prices are steady. We quote: Horseshoes, $4.25; horseshoe nails, No. 8, 14c; calking steel, 3¼@3½c; toe calks, dull, 4½@5c; sharp, 5@5½c; rubber horseshoe pads, 80c@$1.40 per par; bar iron and steel, 2.20@2.40c; Midvale steel, 8c, 12c and 16c for B, Bs and sBs brands; self-hardening steel, 40@45c.

COPPER.

There has been no change and the market is extremely dull. Inquiries from consumers have been somewhat increased but as to the effect this will have of strengthening the market can not as yet be seen. We quote: Lake, round lots, 11.50@11.65c; electrolytic, 11.40@11.50c; casting, 11.35@11.45c. London was cabled firm; Standard copper, closing spot, £52 2s 6d; sales, 300 tons; futures, £52 7s 6d; sales, 250 tons.

MANUFACTURED COPPER.

Manufactured copper continues easy on the weak market on ingot, 17@18c for sheets; bars, 17@17.50c.

GLASS.

Practically all of the window glass factories in the country started during the week for the season. A few have been in operation since the middle of September, and there are a number that will not be started until repairs can be made. The starting of the factories in Indiana alone means employment to nearly 20,000 men and boys. The men in all branches of the trade will receive higher wages than last year. The window glass combinations are scouring the country for enough skilled men to run their plants, but there will probably be a greater shortage of help than ever. Prices quoted on glass to-day are: Single, 89 and 5 per cent off; 89 and 10 per cent off; plate, 80 per cent off.

STRUCTURAL MATERIAL.

Owing to the demand and the large amount of business previously contracted for, the mills are unable to supply the ever-increasing demand for structural material. Mills are continually refusing to accept any additional orders, as it is impossible to make delivery better than six to nine months. We quote, mill shipment: Beams, 15 inches and under, 1.75c to 1.90c; 18 inches and over, 1.85c to 2c; structural angles, 3x3 to 6x6, 1.85c to 2c; angles, channels and tees, smaller than 3 inches, 1.85c to 2c, base. Prices on lots from store, 2¼ cents to 3½ cents per pound.

BILLETS.

The demand is light for domestic billets on account of the inability of mills to supply the demand. The uncertainty of the duty to which foreign billets will be subject has caused a falling off in the demand. As the question will probably be settled to-day, the request of foreign billets will probably be active should the commissioners' decision be favorable.

Quotations.

METALS.

FIRST QUALITY BRIGHT PLATES.

		Per Box.
IC	14x14	$11 25
IC	14x20	7 50
IX	14x20	9 00
IXX	14x20	10 50
IXXX	14x20	12 00
IXXXX	14x20	13 50
IC	20x28	15 00
IX	20x28	18 00
IXX	20x28	21 00

COKE PLATES.

Cokes, 180 lbs	IC	20x28	9 50
Cokes, 200 lbs	IC	20x28	9 75
Cokes, 216 lbs	IC	20x28	10 25
Cokes, 216 lbs	IX	20x28	11 75

PIG IRON.

Lake Sup. Charcoal	$25 00@$26 00
Local Coke Fdy No. 1	23 50@ 24 00
Local Coke Fdy No. 2	23 00@ 23 50
Local Coke Fdy No. 3	22 50@ 23 00
Local Scotch Fdy No. 1	24 00@ 24 50
Southern Coke No. 1	23 65@ 24 15
Southern Coke No. 2	23 15@ 24 40
Southern Coke No. 3	22 65@ 22 90
Southern Coke No. 4	22 16@ 22 40
Southern No. 1 Soft	23 50@ 24 00
Southern No. 2 Soft	22 50@ 23 00
Southern Gray Forge	21 15@ 21 65
Southern Silveries	23 50@ 24 00
Jackson Co. Silveries	31 00@ 32 00
Ohio Strong Softeners	27 00@ 27 60
Alabama Car Wheel	26 65@ 27 65
Malleable Bessemer	23 00@ 23 50

BLACK SHEET STEEL.

No. 16 per 100 lbs.	$3 00
No. 18-20, per 100 lbs.	3 10
No. 22-24 per 100 lbs.	3 20
No. 25-26, per 100 lbs.	3 30
No. 27 per 100 lbs.	3 40
No. 28 per 100 lbs.	3 50
No. 29 per 100 lbs.	3 65

SMOOTH STEEL.

Wood's Smooth	No. 15-17	3 20
" "	No. 18	3 30
" "	No. 20	3 40
" "	No. 22-24	3 50
" "	No. 25-26	3 55
" "	No. 27	3 70
" "	No. 28	3 80

PATENT PLANISHED SHEET STEEL.

Patent Planished Sheet Steel. "A" $10 20, "B" $9 20

GALVANIZED IRON

	Per 100 lbs.
26 Ga.—24, 26, 28 and 30 in. x 8 ft.	$4 40
26 Ga.—36 in. x 8 ft	4 70
27 Ga.—24, 26, 28 and 30 in. x 8 ft.	4 70
27 Ga.—36 in. x 8ft	5 00
28 Ga.—24, 28 and 30 in. x 8 ft	5 00
28 Ga.—36 in. x 8 ft	5 35

HOOP IRON.

¾x22	¾x20	⅞x20
$3 20 100lbs.	$3 10 100lbs.	$3 00 100lbs.
1x20	1¼x19	1½x19
$2 90 100lbs.	$2 85 100lbs.	$2 75 100lbs.

PAINTED CORRUGATED IRON.

8-ft. sheets, 2½x28 Ga....per sq., $2 60

SOLDER.

XXX Guaranteed ½&½ per lb.	19¾c
Commercial ½&½ per lb.	18¾c
No. 1	14¾c

SHEET ZINC.

600 lb. Casks.....base, per lb. 6¾c

COPPER.

Copper.....base, 30c

TIN PIGS AND BARS.

Banca, pigs, per lb	35@35½c
Straits pigs, per lb	35c
Straits in bars, per lb	37c

LEAD.

American Pig	$4 60@4 62½c
	5¾@5¾c

HARDWARE.

QUOTATIONS.

(The quotations given below represent the current hardware prices. They are not given as manufacturer's prices, and manufacturers should not be held responsible for them. Manufacturers sometimes name higher figures than those quoted for goods; they are not always selling at the price quoted, but goods are being sold at the figures printed below by manufacturers and jobbers.)

ADZES.

Carpenters'.
Ajax 50%
Blood's .....40&5%
Hunt's 25%
White's 12½%
Coopers'.
Barton's 20%
White's 30%
Ship.
Ajax 50%
Blood's .....40&5%
Hunt's 25%
White's 12½%

AMMUNITION.

Caps, Percussion—per 1,000.
F L Waterproof, 1-10s 50c
G D $1c
Eley's 52c
Cartridges.
Peters Rim Fire Ctgs .....50&3%
Peters Cent Fire, Pistol & Rifle 25&3%
Peters Cent Fire, Military and Sporting Ctgs .....15&8%
Peters Blank Ctgs, except 22 and 32, at additional 10% from above discount.
Peters Blank Ctgs. 22 cal $1 18
Peters Blank Ctgs. 32 cal., C. F.. 4 40
Peters B B Caps, Round ball....$1 44
Peters B B Caps, Conical ball...$1 85
U. M. C. Rim Fire Ctgs .....50&3%
U. M. C. Cent. Fire, Pistol & Rif 25&3%
Winchester Cent. Fire, Military and Sporting Ctgs .....15&8%
U. M. C. B B Caps, Round Ball .....$1 75..18%
U. M. C. B B Caps, Con. Ball. $1 85 net
U. M. C. Rim Fire Shot Ctgs. 50&15&3%
U. M. C. Cent. " " " 25&10&3%
Primers.
Berdan Primers $1 00
Peters Primers 1 20
U. M. C. Primers 1 20
Winchester Primers 1 20
Shells.
Peters Empty Paper Shells, 10 and 12 gauge. League .....25&2%
Peters Empty Paper Shells, 16 gauge. League .....20&2%
Peters New Victor Nitro Shls..20&2%
Ideal .....25&7%
Peters Loaded Shells. League and Referee Semi-Smokeless 40&6%
Peters New Victor Loaded Shells, with King's Smokeless...40&10&1%
Ideals Loaded with King's Smokeless .....40&10&10&6%
U. M. C. New Club, 16 gauge....20&2%
U. M. C. New Club .....25&2%
U. M. C. Nitro .....20&2%
U. M. C. High Base .....20&2%
Winchester Blue Rivals ..... } 20&2%
Winchester Yellow Rivals ... }
Winchester Repeater .....20&2%
Winchester Leader .....25&7%
U. M. C. Loaded Shells, Black Powder ..... } 40&6% full cases
Winchester Loaded Shells, Black Powder ..... }
U. M. C. ..... } Smokeless 40&10&10&6% full cases
Winchester ..... }
Gun Wads—per 1,000.
Peters Gun Wads 18%
U. M. C. Gun Wads 18%
Powder.
King's Quickshot Powder; Kegs $4.00; ½ kegs $2.25; ¼ kegs $1.25.
King's Semi-Smokeless, new list. 10%
King's Smokeless, new list 10%
Austin Quickshot Powder, Kegs $4.00; ½ kegs $2.25; ¼ kegs $1.25.
Dupont Smokeless, Sporting, 25, ...20, 10&10%
Shot.
Dropshot, sizes smaller than B, 25-lb. bags, per bag $1 30
Drop shot, B and larger sizes, 25-lb. bags, per bag 1 55
Buck Shot, 25-lb. bags, per bag.. 1 55
Chilled Shot, 25-lb. bags, per bag. 1 55

ANVILS.

Trenton, 70 to 80 lbs .....9¾c per lb
Trenton, 81 to 150 lbs .....9c per lb

AUGERS.

Boring Machine .....65&10%
Carpenters' Nut .....65&10%
Hollow:
Ives' New Pattern 25%
Bonney's—list $30.00 .....65&10%
Stearn's, No. 1 .....doz. $42 00
Stearn's, No. 3 ..... " 33 50
Post Hole.
Dalbey, 8-inch .....per doz. $ 5 75
Digwell, 8-inch ..... " 14 50
Howe's, 6 and 8-inch.. " 12 50
Vaughan's, 4 to 9-inch " 7 00
Rafting.
Snell's .....50&5%
Ship.
Snell's, with or without screw .....40&5%

AWLS.

Brad, handled .....per doz. $0 36
shouldered, ass'd. 1 to 4 .....per gr. 1 10
patent, asst'd, 1 to 4 " 95
Harness, common ..... " 1 20
patent ..... " 95
Peg, shouldered ..... " 1 10
patent ..... " 40
Scratch, No. 2, handled... " 4 50
No. 1, socket handled .....per doz. 1 15
Sewing, common .....per gr. 1 10
patent ..... " 95

AXES.

Boys', Handled:
Camp Fire, 3-lb., per doz $5 75
" " 4-lb., freighters', per doz. 6 75
Cast Steel, good grade, pr. dz., 5 50
Pioneer, per doz 6 75
Broad:
Peerless 50%
Plumb's Canada Pattern, ½50 10-5%
" Western " 40-10-5%
Red Warrior, per doz $18 50
Firemen's, per doz $15 50
Single Bitted (without handles)
Cuyahoga Chief, per doz $6 00
Gladstone, " " 7 75
Hubbard's " " 6 50
Hunt's " " 6 25
Lippincott's " " 6 25
Mann's " " 6 25
Pioneer " " 6 75
U. S. A. " " 7 75
Valley Forge " " 6 25
Second Quality " " 5 75
Double Bitted (without handles):
Lippincott's .....per doz $8 75
Mann's ..... " " 8 75
Pioneer ..... " " 9 25
U. S. A. ..... " " 11 00
Valley Forge ..... " " 8 75
Ship, Blood s ..... " " 18 50

BALANCES, SPRING.

Frary's 50%
Pelouze 20%

BAGS, PAPER NAIL.

Pounds..	3	5	10	16	20	25
Per 1,000.	$1 60	1 85	2 60	3 40	3 90	4 75

BARS, CROW.

Pinch or Wedge Point.....cwt. $3 60

BEAMS—SCALE.

P. S. & W. Co 40%

BEATERS.

Carpet, Rattan .....per doz $2 40
Raymond's Steel Wire, " " 80
Woven Wire, No. 4.. " " 1 25
Egg.
Dover Pattern .....per doz. $0 70
Genuine Dover ..... " 0 90
Mammoth Dover ..... " 1 75
Lightning ..... " 0 84
Lyon's (standard size) " 1 75
Whip, French ..... " 1 35
Spiral ..... " 0 40
Spoon ..... " 0 40
Surprise .....per gro. 1 45

BELLOWS.

Blacksmiths' .....70&5%
Hand, 8 in .....per doz. $ 6 85
10 in ..... " 8 40
Molders', 12 in .....per doz. 13 00

BELLS

Call.
2¾ in. nickeled bell .per doz. $ 1 40
2¾ in. " brass bell " 3 00
3 in. " " " " 7 25
3 in. " silver alloy bell, ...per doz. 16 50
4½ in. " brass bell and base .....per doz. 15 75
Cow.
Ordinary Goods .....70&5%
High Grade .....60&10%
Jersey .....70&10%
Door.
Bigelow Automatic.. per doz. $9 50
Rotary.
3 in. bronzed iron bell " 5 25
3 in. nickeled " " " 7 50
3½ in. " " " " 9 00
Hand.
Hand Bells, Polished....60@60&10%
White Metal 50%
Nickel Plated 40%
Swiss .....50&10%
Silver Chime 33⅓%
Miscellaneous.
Church and School, Steel Alloy, ... 50, 10 & 5%
Farm, lbs.. 40 50 75 100
Each. $0 85 $1 25 $1 75 $2 40
Miscellaneous Cont.
Strapped Sheep .....per doz. $1 75
House Gong .....40&5%
Sleigh, Round, Loose .....40&5%

BELTING

Leather—List dated Nov. 12, 1901.
Standard 75%
Eclipse .....60&10%
Extra Grade ..... 50&10%
Rubber—
Standard .....75&5%
Amherst .....65&10%
Extra .....60&2½%

BEVELS—TEE.

Stanley's, rosewood handle, new list .....40&5%
Stanley's, iron handle .....40&5%

BINDING—OIL CLOTH.

Zinc .....75, 10&5%
Brass .....70, 10&2½%
Brass Plated .....75, 10&5%

BITS.

Auger.
Extra Double Spur .....70&5%
Ford Improved .....40&10%
Irwin .....40&10%
New Jenning's .....50&10%
Russell Jenning's ..... 25&7½%
Clark's Expansive .....50, 10&5%
Steer's " Small ..... new list $22.00
Irwin Car .....40&10%
Snell's Car .....60&5%
" Ship .....40&5%
" " Auger Pattern Car..40&5%
Center .....40&10%
Countersink—
Wheeler's .....per doz. $1 60
American Small Head " 0 70
" Rose " 0 80
" Flat " 0 70
Buck Bros'. Flat " 2 60
German " 0 70
Dowel, New Jennings .....40&10%
Gimlet—
Standard Double Cut 50&5@50&10%
German Pattern .....per doz. $0 48
Gouge " 0 80
Spoon " 0 80
Countersink " 1 30
Reamer—
Buck Bros.' ½ Round. " 2 75
" " Square.. " 2 50
Standard ½ Round ... " 0 75
" Square ..... " 0 75
German Octagon... " 0 75
Screw Driver—
Round Shank " 0 48
" " extra quality " 1 40
Square Shank " 1 10

BLACKING—STOVE. (See Polish.)

BLADES—SAW.

Butchers'—
Standard ¾ & 1¼in .....60&5%
Clock Spring .....60&5%
Star 20%
Hack—
Disston's .....25&5%
Griffin's .....35&5%
Star 20%
Wood—
Jackson's .....per doz. $2 25
Disston's—No. 6, 16, 26 & 045, $4 20; No. 11, $6.30.
W. M. & Co.'s No. 20..per doz. $5 50

BLOCKS.

Snatch—
Wooden .....50&10%
Steel .....40&10%
Tackle—
Wooden .....70&5%
Steel .....50, 10&5%

BOARDS.

Stove .....40&5%
Wash—
Anchor .....per doz. $1 60
Globe " 2 10
Banner " 2 60
Crystal " 3 15
Brass King " 3 15
Nickel Plate " 3 15
Enamel King " 3 15

BOBS - PLUMB.

Carpenters', 8½ oz. iron..pr dz. $0 65
1¾ lb. " " " 1 60
2¾ lb. " " " 1 80
13 oz. lead.... " 3 00
6½ oz. brass. " 3 30
Mason's, 3 lb. lead " 4 00

BOILERS—FARM.

Profit .....30&5%
Solon .....35&5%

BOLTS.

Carriage, Machine, Etc.
Carriage, Common, new list.....65%
Machine .....65&5%
Elevator .....50&10%
Plow .....50&5%
Stove .....75&10%
Tire 75%
Wagon Box Strap .....70&10%
Mortise Door—
Gem .....50-10&5%
Ives' .....50&10%
Barrel—
Cast 50%
Wrought 75%
" Bronzed 40%
Flush, Wrought, B. K .....40&5%
Spring—
Wrought .....75&10%
" Brass .....75&10%
Square—
Cast 40%
Wrought .....60-10&10%

BORERS.

Angular, Miller's Falls, per doz $12 75
Bung, Common Ring with Handle—
Inches 1½ 1¾ 2
Per doz $6 00 6 90 8 10
Enterprise Mfg. Co., No. 1 List $1.50; No. 2, $2.00 each...25-10&5%

BOXES.

Mail, No.......... 5 10 20
Per doz.........$3 65 10 50 13 00
Mitre—
New Langdon...............15&5%
Olmsted's 15%
Stanley's.....................30%
Seavey's ....per doz $18 00
Twine, Nos... 20 30 25 35 121
Per doz $1 35 1 35 2 65 2 65 3 50

BRACES.

Common Ball.............$1 35@1 45
Barbers' Pattern ....60&10%
Fray's Gen. Spofford's.........50&10%
" No. 66 to 146 ....50&10%
P. S. & W. Co.'s Peck's Adjustable.......................50-10&5%

BRACKETS.

Hay-Rack, Wenzelmann's No. 1, $12.50; No. 2, $13.00 per doz.
Shelf—
Cast Iron, Plain ....50&10%
Stanley's Wrought Steel.......
.... 70-10&2½%
Wire..... ....75-10&5%

BROILERS.

Wire ....70&10%
Crown, Self-Basting, No.80..doz. $2 90

BUCKETS.

Pump Rubber—
Wychoff...............per gr. $4 75
Cooper .... " 5 50
Champion .... " 7 50
Victor .... " 9 50
Star................ " 5 00
IXL................ " 6 75
Well—
Galv'd Qts...... 8 10 12
Per doz $2 60 3 00 3 30
Wooden, top ear, plain, per doz 3 25
" " swivel " 4 65
" side-strap, plain " 3 35
" " swivel " 4 75

BUCKS, SAW.

Folding ....per doz $1 75

BURS, RIVETING.

Copper Burs Only............35-10&5%
Tinners' Iron Burs Only..........70%

BUTTS.

Cast-Iron....................65&10%
Wrought Brass....................20%
Wrought Steel Bright—
Nos. 800, 804, 808, 810, 814 and 834
.... 70&10%
Nos. 838, 840 and 842 ....75%
Nos. 822 and 828..................80%
Wrought Steel, Japanned—
Nos. 731 and 727..................70%

CALIPERS.

Double ....40&10%
Inside and Outside..............40&10%
Wing..........................40&5%

CALKS.

Logger's Boot,(Lufkin R. Co's.)
.......................per M $3 65
Toe.
Shoenberger............per lb. 5c
Bessemer .... " 5½c
American .... " 7½c
Swedes................ " 8½c

CANS.

Cheese Factory Can Stock—
Gallons.... 15 20 30 40
Per set....$2 90 $3 15 $3 75 $4 75
Milk Cans—Gals.. 5 8 10
Elgin Pat., each, $ $1 75 $3 10
Iowa " 1 60 1 70 1 85
New Elgin" 1 65 1 85
New York" 2 10 2 35
Oil—
1 Gal. glass, Daisy....per doz. $2 35
1 " cushioned " 3 90
Star, gals...... 1 2 3
Per doz........ $1 85 $3 00 $3 90
Per doz.
Champion Faucet, 5 gallon...$ 5 65
Sterling Tilting....5 " ... 8 25
"High C" Pump...5 " ... 9 25
Eureka Pump.....5 " ... 12 25
Wood Jacket ....50-10&5%

CAPS—GUN.

See Ammunition.

CARRIERS.

Hay—
Myers' Imperial.........each $3 40
" Clover Leaf...... " 3 40

CARTRIDGES.

See Ammunition.

CASTERS.

Acme—Ball Bearing..............35%
Bed..........................70&5%
Common Plate—
Brass wheel...... ....65&10%
Iron and porcelain wheel.....70&5%
Philadelphia Plate.............70&5%
Martin's...................40-10&5%
Payson's......................75%
Tucker's—Wood and iron wheel..70%
" Rubber wheel......65&10%

CATCHERS—GRASS

Ieder's No. 1..........per doz, $6 25
Eureka.................. " 4 25
Ideal No. 4........... . 50

CHAIN AND CHAINS.

Breast Chains—
Doubleslack.........doz. pairs $5 00
With Covert snaps " 4 75
" slide.......... " 2 90
Without slide..... " 2 60
Bright Ox Chains—
5-16in. $6 75: ⅜in. $5 75 per 100 lbs.
Bright Coil Chain—
American, new list..............40%
German ....60-10&5
Triumph, new list...............30%
Cable Coil Chain—
Inch.......... 3-16 ¼ 5-16 ⅜
Per 100 lbs....$9 75 $7 25 $5 90 $4 75
Inch .... 7-16 ½ ⅝ ¾
Per 100 lbs....$4 60 $4 50 $4 35 $4 25
Cable Log Chain—Advance 25c per 100 lbs. on Cable Coil.
Cow Tie Chains—
American 2 toggle.......40-10 & 5%
" toggle and snap, 40-10&5%
" open and closed ring.......................40&5%
Halter Chains—
American, new list.............40%
German...................60-10&5%
Niagara, new list..............40&5
Triumph " 30%
Jack Chain—
Brass.....................50-10&5%
Iron......................50-10&5%
Picture Chains—
Light Brass, 2 ft.......per doz. 63c
Heavy " 3 " .... " 75c
Pump Chain—Galvanized per 100 lbs.......................... $4 45
Safety Chain—Brass..........60&10%
Stretcher Chains—
5-16 in., $7.75—⅜in., $7.00 per 100 lbs.
Tie-Out Chains—Browns......70&10%
Trace Chains—Western Standard—
6½— 6-2................per pair 30c
6½— 8-2................ " 34c
6½— 8-3................ " 33c
6½—10-2................ " 39c
7 —10-2................ " 44c
Add 3c per pair for Hooks.
" 2c " for Twist Link.
Wagon Stay Chains—
Inch ¼ 5-16 ⅜
Per 100 lbs. $6.50 $6.00 $5.25
Well Chains—
With Swivel............per doz. 95c
Without " .... " 80c

CHALK-CARPENTERS'.

Blue....................per gross 58c
Red.................. " 48c
White.................. " 38c
Common White Sch'l Crayon. .... " 5½c

CHARCOAL.

In barrels ....per bu. 23c

CHECKS-DOOR.

Blount 30%
Blum-Jap'd, $6.25; Brzd., doz... $7.00
Columbia....................50, 10&5%

CHISELS.

Box—
Inches............ 10 12 14
Round....per doz. $2.10 $2.25 $2.75
Flat......per doz. 2.85 3.60 4.20
Cold—
Good quality......per lb. 13@ 23c
U.S.A.,extra quality..per lb. 28c
Socket, Framing and Firmer—
Barton's.......................... 20%
P S. & W. Co's.................. 70%
For beveled back, add..per doz......................... 60c
Tanged. Firmer—
P S. & W. Co's...............35&5%
With Handles add....per doz. 60c

CHUCKS-DRILL.

Standard Tool Co.'s 40%
Goodell's, for Goodell's Screw Drivers................per doz. $6.25
Yankee, for Yankee Screw Drivers..................... 5.00

CHURNS.

Anti-Bent Wood, Gal.. 5 7 10
Each $3.85 4.10 4.30
Belle, Barrel...................... 70%
Common Dash, Gal.... 4 5 7
Per doz.............. $6.50 7.25 7.75
Union, Gal............ 5 7 10
Each $3.40 3.65 4.65

CLAMPS

Adjustable—Martin's 40%
Carpenters'—Steel Bar.......... 30%
Carriage Makers'—P. S. & W. Co.'s.........................40, 10&5%
Hose—
Sherman's, brass, ¾ in., ...per doz. 33c
Double, brass, ¾ in...per doz. 65c
Saw Filers—
Disston's list, $30 00 .... 30%
Stearn's, No. 0, $3.50, No. 1, $11.50, No. 3, $5.50 doz.
Wentworth's.. .... 40%

CLAWS-TACK.

Cast, wood hdle ..per doz., 45@ 60c
Forged steel, wood handle ....per doz. 80c
Solid Steel..............per doz. $1.60
Giant.............. .....per doz. .60

CLEANERS.

Pot--Wire.............per doz $0.45
Side-Walk—Steel..... per doz. 3.15
Window—
Peerless..................50, 10&5%
XLCR.......................65&10%

CLEAVERS.

Butchers'—F. R. Plumb's......35&5%
Family—Ajax, In..... 6 7 8
Per doz $5 50 5 75 6.25

CLEVISES.

Malleable.................per lb. 4½c

CLIPS.

Axle...............................65&5%
Damper—
Standard ....per doz. $0.55
Troy .... " .38
Hame................. " .20

CLOTH.

Emery—
Ajax.........................50&10%
B. & A................... 50%
Hardware Wire—full rolls (100 ft.)
2 to 8 mesh black, per 100 sq. ft. $1.85
9 to 12 " " " " 2.15
2 to 8 " galv, " " 2.70
7 and 8 " " " " 3.25
An extra charge is made for 50 ft. lengths, and a still further advance for smaller pieces.
Screen Wire--
12 mesh, painted, per 100 sq. ft. $1.10
14 " " " " 1.85

COCKS--BRASS.

Compression Bibb...........60&5%
" Lock..............60%
Lever Bibb.......................60%
Liquor 60%
Racking 60%

COFFEE MILLS.

Enter. Mfg. Co., list Jan 17, '98...25%
Parker's.........................50%
Arcade........................60&10%

COLLARS--STOVE PIPE.

Inches 5 6 7
Plain Tin....per gr.$2.50 $2.80 $3 75
Japanned Tin, " 3.90 4.20 5.40
Lacquered Brass" 3.20 3.60 4.80

COMBS--CURRY.

Nos.	000	20	321	330	417	416
Per doz.	$0.32	.80	1.00	.95	.80	1.00
Nos.	531	533	530	535	545	300
Per doz	$0.96	1.20	1.10	1.65	1.40	1.50

COMPASSES.

Carpenter's....................65&10%
Pencil--Faber's..........per doz.$1.00

COOLERS--WATER.

Galvanized Lined—Lever Faucet.
Gal. 2 3 4 6 8
Each $1.35 1.65 2.00 2.35 2.95
Galvanized Lined—Telegraph Faucet
Gal. 2 3 4 6 8 10 15
Ea$1.65 2.00 2.35 2.65 3.30 3.65 4.90
Porcelain Lined—
Gal. 3 4 5 6 7 8 10
Ea$4.50 5.75 7.00 7.75 8.60 10.40 12.25

COPPER—See Metals.

COPPERS.

Soldering--1 to 2 lb.....per lb. 25@29c
3 lb. and larger..... " 23c

CORD.

Picture--White Wire--List October 1900..........................80&10%
Sash--
Baltic Braided Flax...per lb. 18½c
India Hemp, cable laid " 13 c
" " hawser " " 12 c
" " plain " " 13½c
Italian " cable " " 21½c
Russian " " " " 17 c
Samson, white " 31½c
" spot " 30½c
Silver Lake, white " 24½c
" " drab " 31½c

CORKSCREWS.

Humason & Beckley............33⅓%
Walker's......................33⅓%
Williamson's Regular 50%
Williamson's Forged Worm.....50%

COTTERS--SPRING.

Discount ....75&5%

COUPLINGS--HOSE.

Brass ....per doz. $1 00
Brass Plated........... " 85

COVERS, WAGON--See Tents.

CRADLES--GRAIN.

Morgan's Grapevine ..per doz. $22.00

CRAYONS--See Chalk.

CROOKS--SHEPHERDS'.

American Pattern .....per doz. $7 75
Montana " ..... " 8 00
Scotland " ..... " 7 00

CROW BARS.

Pinch or Wedge Point....per lb. 3½c

CUTTERS.

Meat--
Enterprise Nos. 5, 10, 12, 22, 32, and 42...........................25%
No. 100, list, $18.00...........40&10%
Nos. 2 and 4......................35%
Ideal.................per doz. $9.75
Universal....No. 1 2 3
Per doz..........$10.75 $13.00 $18.00
Pipe-Stanwoods No. 1 2 3
Each..............$ .85 1.40 3.60
Slaw and Crout--
3-knife Crout..........per doz. $9.25
1 " Slaw........... " 1.35
2 " " .... " 2.00
Washer.................. " 7.75

DAMPERS--STOVE PIPE.

Standard.................... 50&10%
American .... 50&5%

DIES--STOCKS AND

Discount........................40%

DIGGERS--POST HOLE.

Atlas..................per doz. $8.50
Eagle.................. " 6.25
Eureka.................. " 7.00
Hercules.................. " 10.77
Ryan's.................. " 16.50
See also Augers—Post Hole.

DIVIDERS.

Wing ....70&5%
Extension Wing...............35&5%

DOORS--SCREEN.

⅞ in. 4 panel painted per doz. $ 6.75
1⅛ " " " " 7.25
1⅛ " " natural pine, fancy per doz.............. 11.25

DOOR HANGERS—BARN.

No. 3. Superb......per doz. sets, $6 50
No. 4. Superb...... " " 7 75
Single Flange, D. B. Rail, ...per 100 ft. 1 60
Novelty Check Back,
.... 3 in 4 in 5 in 6 in
Per doz. pairs, $2.60 $3.90 $4.95 $6.25

DRILLS.

Bit Stock ....60%@65&5%
Blacksmith's Twist................60%
Breast--
Common ....each, $2.25
Millers' Falls............. " 2.10
Hand--
Goodell's Automatic--per doz.
No. 01 No. 03 No. 3 No. 20
$7.75 $12.50 $14.25 $11.00
Goodell's Single Gear per doz. $16.00
Millers' Falls " " 12.50
" " Double " " 15.00
Reciprocating—
Goodells'............per doz. $17 00
Bit Stock.
Standard List....60&5%@60%@10%

DRIVERS--SCREW.

Standard......................65&10%
Ajax..........................70&5%
Champion........................50%
" Pattern...............75&5%
Clark's Interchangeable.. .... 33⅓%
Reed's Lightning.................50%
Goodell's Spiral ....50&10&5%
Yankee Ratchet....................50%
" " Spiral.....50&10&5%

ELBOWS.

Conductor........................60%
Adjustable Stove—In. 5 6 7
Smooth....per doz. $0.98 0.98 1.40
Plan'd..... " 2.35 2.35 3.15
Corrugated Stove—In. 5 6 7
Smooth.....per doz. $0.98 .98 1.40
Pol'd......... " 1.75 1.75 2.70
Plan'd...... " 2 60 2.60 3.60
Four-Piece Stove—In. 5 6 7
Smooth....per doz. $0.63 .63 1.00
Pol'd....... " 1.15 1.15 1.60
Plan'd..... " 1.80 1.80 2.60
"O.H." Corrugated—In. 5 6 7
Common...per doz. 1.02 $1.20 $1,75
Smooth..... " 1.25 1.45 2.10
Polished.... " 2.10 2.50 3.15
Planished... " 2.90 3.50 4.35

EMERY--TURKISH.

Size ....5-lb. pkgs. ¼ kegs, kegs.
No- 60 to 150, ♯ lb. 6½c 4½c 4½c
Flour.... . " 5½c 3½c 3½c

ENAMEL—IRON.

English, ½-pt. cans...per doz. $1.50
Nubian, " " ... " 1.80
O. V. B., " " ... " 1.25

EXTRACTORS--PIG.

See Forceps, Pig.

EYES.

Bright Wire Screw—See Goods, B.W.
Drifting Pick ....60&10%
Hooks and—
Brass..........................60&5%
Iron ....65&10%

FASTENERS, STORM SASH.

Moore's.................per doz. $0 80
Schroeder's............ " 1 50
Sensible.... .... " 1 10

FASTENERS, BLIND.

Zimmerman's.....................Net

FAUCETS.

Angle Plug.............per doz. $0 84
Brass--Andrew's 60%
Petroleum 60%
Wood--Cedar ....40&50%
Cork Lined......................60%
Metal Key.....................65&5%
Measuring--Enterprise.........35&5%
See also Cocks.

FILES AND RASPS

Arcade ....75&5%
Black Diamond.................70&10%
Disston's......................75&5%
Great Western..................75&5%
Keystone Mill.................80&20%
Kearney & Foote ....75&5%
New American ....75&10&5%
Nicholson's....................70&10%
Royal Mill ....80@20%
N. S. A ....70&10&5%

FORCEPS—PIG

Barber's...............per doz., $7 25
Superior.............. " 4 75
Whisson's Imp......... " 6 00

FORKS

Barley—
Steel.....................66%, 10&5%
Wood, 4 tines, $5.25; 6 tines, $6.25 doz
Coal.......................70, 10&2½%
Coke.......................70, 10&2½%
Cottonseed.................70, 10&2½%
Hay—
Diamond, 2 tine..........65, 10&5%
" 3 " ......60. 7½, 10&5%
" 4 " .... 66%, 10&5%
Golden Eagle, tine 60,7½,10,10&5%
" " " ..66%,10,10&5%

FORKS—CONTINUED.

Header—
Diamond, 2 tine.....67½&10&5%
" 3 " .....60, 20, 10&5%
" 4 " .....66⅔&10&5%
Golden Eagle, 4 tine.....10&10&5%
Manure—
Diamond .....60, 20, 10&5%
Golden Eagle.....60, 20, 10, 10&5%
Ore.....70&10%
Potato—
Digging..... .....65&10&5%
Scoop .....70&10%
Spading—
Diamond .....70, 5, 10&5%
Golden Eagle.....70, 5, 10, 10&5%

FRAMES

Hack Saw—
Crown.....per doz., $ 8 75
Miller's Falls..... " 10 00
Star..... " 2 85

FREEZERS—ICE CREAM

Arctic—Qts... 1 2 3 4 6
Each.....$1 10 1 30 1 50 1 75 2 30
Qts..... 8 10 12 15
Each.....$2 85 3 75 4 50 5 20
White Mountain, with Crank—
Qts..... 1 2 3 4 6
Each.....$1 20 1 65 1 90 2 10 2 70
Qts..... 8 10 12 15
Each.....$3 60 4 60 5 90 7 00

GATES.

Molasses and Oil.
Perfection.....40&10&5%
Stebbin's.....75&10&5%

GAUGES.

Butt and Rabbet.
Stanley R. & L. Co.'s..20&10&2½%
Cream Pail, Fairmont, per doz..$3 75
Marking, Mortise, etc......
.....50&10%@50&10&5%
Saw—Atkin's agle. 55c, dbl. 80c pr doz.
Wire.
Disston's.....25%
P. S. & W. Co.'s.....20%

GIMLETS.

Discount.....40@40&10%

GLASS—WINDOW.

All sizes, single strength.....80%
" double strength.....80%

GLASSES—LEVEL.

Stanley R. & L. Co.....50&5%

GLUE

Bulk.
B Amber .....per lb 9¾c
A White.....per lb 12½c
H. S. Amber.....per lb 17 c
Liquid.
Eagle .....40 %
LePage's—
List "A".....37½%
List "B".....34½%
List "C".....25 %

GOODS.

Bright Wire.....85&5%

GREASE, AXLE.

Wood Boxes.
Diamond.....per gr. $5.40
Frazer's..... 9.25
Hub Lightning..... 5.25
Paragon..... 6.75
Wood Pails.
Frazer's, 15 lb. 78c, 25 lb. $1.30 each.
Hub Lightning, 15 lb. 53c, 25 lb. 68c each.
Tin Cans.
1 lb. Frazer's carriage, pr. doz. $1.30
1½ lb. " wagon.. 1.80
3 lb. " " " 2.40
5 lb. " " " 3.50

GRIDDLES

Soapstone.....40&5%

GRINDSTONES

Family—In..... 7 8 9
Per doz.....$7 75 8 75 10 00
Loose.
Per ton .....$20 00@$21 00
Mounted—
Ball Bearing..... 1 2 3
Each $3 10 2 90 2 75
Common Bearing.. 1 2 3
Each $2 85 2 65 2 50
Schofield's—
Auto.....each, $3 30
Bitreudie..... " 3 10

HAFTS—AWL

Brad—Common.....per doz., $0.18
Peg—
Common..... " 21
Patent, plain top..... " 46
" leather top.. " 52
Sewing—
Common..... " 21
Patent..... " 52

HALTERS

Jute Rope.....per doz., $0 80
Sisal Rope..... " 1 95
Web ..... " 2 10
Leather, rope tie..... " 6 25
" leather tie..... " 8 25

HAMMERS—HANDLED

Blacksmiths' Hand
Maydole's .....40&10%
Plumb's .....50&10&5%
Engineers'—
Maydole's .....40&10%
Plumb's Oil Finish.....60%
" Polished .....50&10&5%
Farriers'.
Maydole's .....35&5%
Plumb's .....40&5%
Machinists'.
Maydole's .....40&10%
Plumb's.....50&10&5%

Nail.
Ajax.....per doz $5 75
Calumet..... " 3 40
Cast.....per doz $1 10@$1 50
Maydole's .....30&7½%
Plumb's.....40&5%
Vulcan .....35&5%
Riveting.
Maydole's.....35&5%
Plumb's .....40&5%
Shoe Plumb's.....30&5%
Tack.
All Iron .....per doz $0 32
Pol'd Iron, Hickory hd " 0 48
Mall. Iron, Inlaid..... " 1 50
Magnetic 1 2 3
Per doz..... 70c 80c 95c
Magazine.....per doz $4 75

HAMMERS—HEAVY.

Heavy Hammers and Sledges.
Under 5 lbs.....70&10%
5 lbs. and over 75%
Masons'—Single & Double Face..75%

HANDLES.

Auger.
Common Ass'd.....per doz $0 86
Peck's Adjustable..... " 2 10
Roger's " .... " 4 15
Ives' " ....per set 1 25
Axe.....40&5@50%
Chisel.
Hickory, Tanged Firmer, Assorted, 24c; Large, 26c per doz.
Hickory, Socket Firmer, Assorted, 18c: Large, 21c per doz.
Applewood, Tanged Firmer, Assorted, 27c; large, 36c per doz.
Applewood Socket, Firmer, Assorted .....per doz 24c
Coal Pick .....40&10%
Drifting Pick.....40&10&5%
File, assorted 13c, large 16c per doz.
Hammer.
Adze Eye.....per doz 35c
Blacksmiths'.....per doz 36c@55c
Machinists'..... " 38c@60c
Hatchet.....per doz 36c
Hay and Manure Fork....50&5%@60%
Hoe and Rake .....50&5%
Saw, Plain 72c, Varnished 68c per dz.
Screw Driver, Assorted 42c, Large 48c per doz.
Shovel and Spade .....50&5%

HANGERS

Barn Door—
Rival.....per doz. prs., $3 90
Superb ..... " 6 25
Safety Flexible. " 7 50
Prouty ..... " 5 70
King ..... " 5 00
Eave Trough—
Baker's.....per gr., $2 35
Woodruff's ..... " 1 60
Imperial 15%
Wire 25%
Parlor Door—
Acme.....per set $3 75
Ives' Improved ..... " 2 50
Lane's Standard..... " 3 50
" New Model.... " 2 80
Prouty ..... " 3 00
Wilcox Trolley ..... " 3 75

HASPS.

Hinge, Wrought.....50, 25&10%
With Staples—See Staples.

HATCHETS.

Ajax .....40&10&5%
Blood's.....40&10%
Cast Claw.....per doz $1 50@$1 75
Cast Shingling.... " 1 20
Duffy's Barrel.....per doz 17 50
Germantown .....35&5%
Hammond's.....40%
Plumb's .....40&10&5%
Plumb's Warehouse.....40%
Roger's Ideal.....per doz $5 25
Underhill's Star Lath.....40%
U. S. A.....40%

HAY RACK BRACKETS.

Wenzlemann's No. 1, per doz...$12 60
" No. 2, " ... 13 20

HINGES.

Blind.
Clark's Gravity, 1 2 3
Per doz sets.....74c $1 80 $3 50
Parker's.....70%
Shepherd's Noiseless, for Wood casing.....doz 95c
Stanley's Wrought..per dz sets 84c
Gate.
Clark's, 1 2 3
Hgs & Ltchs, dz.. $2 20 $2 35 $3 60
Hinges Only, " .. 1 60 1 70
Latchs Only, " .. 0 65 0 70
Knuckle.....per doz prs $6 25
Leed's..... " sets 6 50
Superior ..... " prs 9 25
Spring.
American.....25%
Bommer Bros. Ball B'rng Floor 40%
Bommer Bros. Spring Hinges .40%
Chicago.....25&5%
Clover Leaf.....per gro $8 75
Columbia Dbl. Acting....40&10&5%
Gem 25%
Ideal Detachable,....per gro $10 80
New Idea ..... " 8 75
Oxford.....20%
Wrought Iron.
Light Strap Hinges.....70&25&10%
Heavy Strap Hinges.75, 10, 25 & 10%
Light T Hinges.....66⅔, 25 & 10%
Heavy T Hinges ..60, 5, 25 & 10%
Extra Heavy T Hinges 75, 25 & 10%
Cor. Heavy Strap.....75, 10, 25 & 10%
Cor. Ex. Heavy T.....75, 25 & 10%

Screw Hook and Strap.
6 to 12in.....per 100 lbs. $3.75
14 to 20in ..... " " 3.50
22 to 36in ..... " " 3.25
Screw Hook and Eye.
⅝ to 1in .....per 100 lbs. $6.50
⅞in ..... " " 8.00
¼in ..... " " 10.00

HOES.

Garden.....75&10&5%
Grub .....65&5%
Hazel.....per doz $6 25
Ladies' and Boys'.....70 10, 5, 10&5%
Mortar .....75, 7½, 10&5%
Planter's Eye..... 6 10&2½%
Weed .....70, 10, 10&5½%

HOOKS.

And Eyes.
Brass .....50&10&5%
Iron.....65&10%
Awning.....per gro $1 50
Belt.....75&5%
Bench—See Stops, Bench.
Box, In. 6 8 10 12
Doz.. $1 25 $1 60 $1 70 $2 25
Humason & Beckley's...pr dz $2 40
(See Goods, Bright Wire.)
Bush.
Common Axe Handle .....per doz $7 00@$8 50
Hamilton Pattern.....per doz $7 25
Chain—In. ¼&5-16 ⅜ 7-16 ½
Per 100.. $8 25 $9 75 $11 50 $12 00
Clothes Line.
Japanned.....per doz 21c@22c
Galvanized..... " 35c
Coat and Hat.
Cast Iron.....per gro 72c@$1 00
Gem Wire.....65%
Conductor.
Malleable.....50&10%@50&10&5%
Wrought.....40&10%@50%
Corn.
Common, unpolished, per doz. $1 30
" polished.. " 1 60
"Cut Easy," serrated, per doz. 2 90
Gate.—See Goods, Bright Wire.
Grass.
Common, Nos. 2 3 4
Per doz..... $1 60 $1 65 $1 70
German .....per doz $1 85
Little Giant..... " 3 10
Wood's..... " 1 30
Hammock.
Common..... " 21c
With Plate..... " 36c
With Screw..... " 36c
Piggot's..... " $1 05
Lambrequin or Drapery...per gro 21c
Picture .....50%@50&10%
Potato and Manure.....70&10&7½%
Screw, Brass.....80&5%
(See Goods, Bright Wire.)
Seat Spring .....per lb 5½c

HOOPS—TUB.

Ever Ready..... per case $1 65

HOSE—GARDEN.

Ply 3 4 5 6 8
Black, pr ft. 7¼c 8¼c 9¼c 10¼c 11¼c
Cotton, 3 ply.....per ft 6½c
Red, 3 ply ..... " 7½c
Yucatan Endless...per ft 11¼c@12½c

HUSKERS.

Boss.
Nos. E A B P PX
Dz.$1 85 $2 00 $1 95 Gr.$6 90 $5 40
Nos.2000 3000 4000 O OX
Gr.$3 10 $6 75 Dz.$1 15 $2 25 $1 75
Brinkerhoff's.....per gro 14 50
Common Sense.....per doz 1 60
Harrington..... per gro 4 50
Ideal—Nos. 102 101 100
Per doz..... $1 60 $3 00 $3 15
Johnson's.....per gro 7 75
Tyler's ..... " 8 40
Vaughan's..... " 2 25

IRON.

See Metals—First column.

IRONS.

Curling.
Common .....per doz 35c@48c
Princess.....per doz $0 60
Yale..... " 0 84
Oxford..... " 1 10
Ruby ..... " 1 50
Tourist, Folding ..... " 0 90
Pinking..... " 0 60
Plane.
Wood Bench.....20&5%
Stanley R. & L. Co. (new list)25&5%
Sad.
Charcoal.....per doz $11 25
Common, Polished, per 100 lbs 3 50
" Nickel Plated, " 4 75
Chinese Polishing.....per doz 7 25
Laundry, No. 1, $5 75; No. 2, $6 25 per doz.
Mrs. Pott's.
No. 50 J, Enterprise...per set 77c
No. 55 J, " ... " 74c
No. 50 T, " ... " 80c
No. 55 T, " ... " 77c
No. 50, Howells ..... " 77c
No. 55, " ..... " 74c
Tailors' Sad .....per lb 4½c
" Geese..... " 4½c
Tayers.
Single Duck Nest.....per doz $5 25
Double " " ..... " 6 25
Sutton.....each 2 40

JACKS.

Locomotive .....75&5%
Wagon.
Meeker's .....per doz $11 25
Miller's No. 2 ..... " 7 75
T., M. & S..... " 9 00
Winner..... " 7 75

KETTLES.

Brass.....20%
Caldron.....35&5%
Copper.....per lb 26c
Maslin.....65&10%
Sugar .....50&10&5%

KNIVES.

Beet, Topping.
Clyde, 9-in. Scimiter Blade.dz $4 25
" 12-in. Straight " .dz 3 50
Corn.
Acorn.....per doz $2 10
Ajax..... " 2 25
Clipper, Light, $1 60; Heavy, $1 75 per doz.
Disston's.....per doz $2 85
Easy (attached to foot) " 7 75
Greenleaf's..... " 3 60
Drawing.
Standard.....70%
Adjustable 20%
Barton's Carpenters'.....10&5%
" Folding Handle.....25&5%
Hay.
American, Sickle Edge...doz $10 25
Canton, Sickle Edge..... " 8 25
Heath's..... " 8 25
Lightn'g, Holt's Genuine " 5 75
Lightning Pattern..... " 5 50
Wadsworth's Sp'r Point. " 8 25
Hedge.
Ajax, Heavy, $5 75; Ex. Heavy, $7 75 per doz.
Hoop.....20%
Mincing.
Common, Single .....per doz 48c
" Double..... " 65c
Streeter, 4 Blade, $1 30; 6 Blade, $1 90 per doz.
Putty.
Common.....per doz 84c
Goodell's.....per doz $1 30@$1 80
Russell's..... " 1 75@ 2 25

KNOBS.

Base, 2¼-in. Maple, Rubber Tip, ...per gro $1 60
Door, Mineral.....per doz 0 80
Porcelain ..... " 0 90
Jet..... " 0 88
Picture.....60&10&5%

LADDERS.

Common Long .....per ft 8½c@13c
Extension .....per ft 10½c
Step.
Common..... " 6c
" With Shelf, add 10c.
I X L.....per ft 19c
Miller's Household. per ft 13c@15c

LANTERNS.

Bull's Eye Police.
3-in Flash Light.....per doz $6 00
2¾-in Regular..... " 4 00
3-in Regular..... " 5 00
Tubular, Berger.....40&10&5%

LEADERS—CATTLE.

Nos. 1 2 3
Per doz... $0 70 $0 85 $3 75

LEATHER—LACE.

Cut.....50&5%
Sides, Ex. Quality.....per sq ft 21c

LEATHERS—PUMP.

Valve and Plunger.....50%

LIFTERS.

Stove Cover.
Japanned.....per gro $2 00
Coppered..... " 3 40
Alaska..... " 7 50
Chilipot..... " 4 75
Devoe's..... " 5 50
Zero ..... " 3 50
Transom, Payson's.....70&10%

LINES.

Chalk, Twisted in 20-ft hanks.
Nos. 15 14 13 12 11
Per doz.. 10c 12c 17c 22c 29c
Twisted in 50-ft balls.
Nos. 1 2 3 4
Per doz..... 24c 30c 36c 44c
Braided in 20-ft hanks.
Nos. 0 1 2
Per doz..... 23c 26c 32c
Masons', in 100-ft hanks...doz $1 00
Clothes.
60-ft Jute .....per doz $0 90
72-ft " ..... " 1 00
60-ft Sisal ..... " 1 50
72-ft " ..... " 2 00
60-ft Cotton..... " 1 25
50-ft Braided Cotton.. " 0 84

LINING—STOVE.

In Bricks.....per crate 42c

MACHINES.

Boring	Without Augers.	With Augers.
Ajax .....per doz	$5 25	$6 75
Angular... "	3 25	5 00
Boss ..... "	4 50	5
Upright.... "	2 90	4

Leather Riveting.
Chicago, Pomeroy ....per doz $9 75
Excelsior..... " 2 50
Handy..... " 2 10
Little Giant..... " 3 10
Pony, Pomeroy ..... " 6 00
Washing.
Boss. 1 2 3 3
Per doz.. $54 00 $60 00 $66 00 $66 00
Globe, No. 1.....per doz $51 00
Horton Rotary..... " 54 00
O K Rotary ..... " 58 00
Round Wayne..... " 26 50
U. S. Steel..... " 60 00
Western Square, No. 2, $26 50; No 3, $28 50 per doz.

MALLETS.

Carpenters'.
Fibre Head, Small. Med. Large.
Per doz..... $5 00 $5 75 $6 75
Round Hickory.....per doz $1 75
" Lignumvitæ.... " 2 75
Square Hickory..... " 1 75
" Lignumvitæ.. " 3 25
Tinners'.
Applewood ..... " 1 65
Hickory..... " 0 80
Hickory Sheet Iron.... " 0 95

MATS.

Door.
National Rigid .....60&5%
Queen Flexible 50%
Stove.
Augite Asbestos.....per doz $0 25
Crown " ..... " 0 30
Wire Covered Asbestos, Ex. Heavy .....per doz 1 00

MATTOCKS.

Extra.....65&5%
Hunt's.....40&5%

MAULS.

Post.
Iron, lbs. 10 13 16 18 20
Per doz. $3 15 $3 85 $5 00 5 20 $5 80
Wood face, lbs. 10 11 12
Per doz..... $4 75 $5 00 $5 25
Wood Choppers'.
Lake Super'r & Oregon Pat.70&10%

MEASURES.

½ pk 1 pk ½ bu
Galvanized..per dz $3 75
Japanned.... " $1 60 2 35 $3 10
Iron Bound. " 1 40 1 70 2 00

METAL.

Babbitt.
Alm.....per lb 8¼c
Best..... " 23c
Common, No. 4..... " 6½c
Copper Mixed..... " 18½c
Magnolia Metal..... " 19c
Tony..... " 10¼c
See Metals—In first column.

MICA.

First Quality.....40, 10&5%
Second Quality..... .....60%

MILLS—COFFEE.

Enterprise.....25&5%
National.....30%
Parker.....50&10%@60%

MOPS.

Bris.....per doz $3 15
Handled Cotton.
Lbs. ¾ 1 1¼ 2
Per doz.. $1 65 $2 10 $2 25 $2 95

MOWERS—LAWN.

Ball-Bearing.
In. 15 17 19 21
Each..... $7 00 $7 60 $8 25 $8 90
Champion.
In. 12 14 16 18 20
Ea.. $2 10 $2 15 $2 15 $2 20 $2 35
Champion, High Chief.
In. 16 18 20
Each..... $3 40 $3 70 $4 00
Cheap Grades.
In. 12 14 16 18
Each..... $1 90 $1 95 $1 95 $2 10
Clipper.....50&10&10%
Girard, in. 14 16
Each..... $2 60 $2 80
Philadelphia.
All Styles Except A & E.....70&5%
Styles A & E.....60&5%

MUZZLES.

Horse.
Nos. 1 2 3 4 5
Doz.$0 30 $0 50 $0 55 $0 70 $1 00

NAILS.

Horse Shoe.
Auable.....50%
Capewell 10%
Perfect.....40&5%
Putnam 33⅓%
Star 35%
Picture.
Brass Head.....40&10%
Judd's .....40&10%
Brads.....80&10&10%
Wire Nails—Small lots.....$2.15
Car load lots..... 1.95

NETTING—POULTRY.

Galvanized.....85%

NIPPERS.

End Cutting.
P. S. & W. Co.....40&5%
Stubb's Pattern .....40&10&5%
Hoof.
Heller's.....40&5%
P. S. & W. Co.....40&10%
V. & B 35%

NOZZLES.

Hose.
Genuine Boston.....per doz $3 40
Genuine Gem..... " 3 60
Magic ..... " 3 60

NUTS—HOT PRESSED.

Square Blank.
In. ¾ ⅝ ½ ⅜ ¼ ⅜ 1
Lb. 9¼c 6¼c 4¼c 4¼c 4¼c 4c 3¾c
Square Tapped.
In. ¾ ⅝ ½ ⅜ ¼
Lb. 12¼c 10¼c 6¼c 5¼c 5¼c

OILS.

Linseed, Pure boiled .....per gal 45c
" " raw..... " 44c

OILERS.

Chase Pattern.
Brass and Copper .....25&5%
Zinc.....50&10&5%
Engineers'.
Cannon .....40&5%
Steel .....60&10&5%
Tin.....per doz $2 5 @$3 00
Machine.
Ajax.....per doz $0 80
Copper Plated Steel... " 1 50
Malleable Iron.....40&10&5%
Tin.....per doz 50c@65c

OPENERS.

Box, in. 10 12 14
Flat ...per doz $2 85 $3 60 $4 15
Round.. " 2 10 2 25 2 70
Can.
American.....per doz $0 26
Delmonico..... " 1 50
Never Slip..... " 0 68
Perfect ..... " 1 35
Tip Top..... " 0 84
Crate, V. & B..... " 5 75

OUTFITS—COBBLING.

Combination ....per doz $11 50
Economical .... " 4 80
Family..... " 10 00

PADLOCKS.

Standard Wrought.....70&10&5%
Champion 50%
Eureka..... .....40&10&5%
Yale.....60&5%

PAILS.

Cream.
14-qt., Without Ga....per doz $3 00
20-qt., " " .... " 3 50
20-qt., With Gauge.... " 5 00
Sap, 10-qt., Galvanized, $1 85; 12-qt., Galvanized, $2 20 per doz.
Stock, Galvanized.
Quarts. 14 16 18 20
Per doz... $3 75 $4 00 $4 65 $5 25
Water, Galvd, qts. 10 12 14
Per doz..... $2 00 $2 30 $2 60
Wood.
Cable, 2-Hoop, $1 80; 3-Hoop, $2 10 per doz.
Cedar, 3-Hoop, $2 60 per doz.
Standard, 2-Hoop, $1 65: 3-Hoop, $1 85 per doz.

PANS.

Dripping.....50&10&5%
Fry, Common.....60&10&5%
Acme .....60&5%
Roasting.
Brownie.....Each 30c@37c
L. & H..... " 58c@80c

PAPER.

Building.
Plain.....per 100 lbs $1 10
Tarred..... " 1 25
Tarred Felt..... " 1 60
Diamond A, Red Rosin.pr roll 0 63
Leader, Red Rosin..... " 0 48
Sand and Emery.
Ajax.....50&10%
B. & A.....50%
Wrapping.
Grecian Express .....per lb 3½c
Rag ..... " 1½c

PARERS.

Apple.
Bay State .....per doz $13 00
Reading ..... " 6 75
Turntable ..... " 6 00
White Mountain..... " 5 25
Potato.
Goodsell's Saratoga..per doz. $6 50
White Mountain..... " 6 00

PICKS

Drifting and Poll Picks.....60&10%
Extra Railroad.....65&5%
Surface.....65&5%

PINCHERS.

Carpenters', wrt. iron, pol. steel jaws.....30%
Blacksmiths'.....50%
P. S. & W.....40&10&5%

PINS.

Clothes.
Common.....per gr..$0 12
Hoyt's..... " .. 30
U. S..... " .. 70
Picket.
Fluted.....per doz..$0 72
Round..... " .. 1 55
Spiral ..... " .. 1 90

PIPE.

Conductor.	Nested	Not nested
Eastern	75%	70&12½%
Central	70&12½%	70&7½%
Southwst'n..	65&12½%	65&7½%
Mo. River ...	70&12½%	70&7½%
Southern	70%	65&10%

Lead.
Full coils.....per lb..$0 5¾
Cut " ..... " .. 06
Stove.

Acme—In.	5	6	7
Smooth, per jt.	11¼c	11¼c	13¾c
Planished, " ..	23c	33c	43c
Peerless--Smooth..	9¼c	9¼c	12c
Polished.	16c	18¼c	23c
Planished.	29c	31c	40c

Made-up—In.	5	6	7
Smooth.....	11¼c	11¼c	14¼c

7 to 6 in. Smooth Tapers, pr jt..15c
6 in, Smooth T's..... " ..30c
7 to 6 in. Planished Tapers.....45c
Wrought Iron.
List March, 1900.
½ to ⅛ in., black.....discount, 56%
¾ to 12 " " ..... " 63%
½ to ⅛ " galvanized.. " 43%
¾ to 12 " " .. " 5 %

PLANES.

Ohio.....60&5%
Stanley Planes, new list..30%@30&5%
Bailey Planes.....35%
Sandusky.....25%

PLANTERS.

Corn,
Improved Eclipse....per doz..$7 75
Monitor..... " .. 7 25
Triumph..... " .. 5 75
Potato
Acme.....per doz.. $5 75
Challenge ..... " .. 10 75

PLATES--TIN.

See Metals in Column 1.

PLIERS.

Button's--In. 4½ 6 8 10
Per doz.....$2.60 $3.10 $3.90 $5.20
Button's Pattern.
In. 4½ 6 8 10
Per doz.....$2.25 $2.50 $3.45 $4.40
Cutting.
Cronk's Comb.....per doz..$6 25
Bernard's.....30%
Lodi.....40&10&5%
Stubb's.....50%
Fencing.
Cronk's.....per doz..$9 25
Farmers' Choice..... " .. 8 75
Russell's..... " .. 8 65
Flat and Round Nose.
Bernard's.....30%
German.....50%
Lodi 40%
Paragon.....40&10%
P. S. & W. Co. 60%
Gas--In. 8 10 12
Per doz.....$3.10 $4.00 $4.90

PLUMBS AND LEVELS.

Common.....75%@75&10%
Cook's.....40%
Davis' Iron 30%
Davis' Inclinometer.....20%
Stanley's

Nos.	00S	0S	2S	3S
Per doz..	$4.15	$4.60	$7.20	$7.90
Nos.	30	25	50	35
Per doz.	$12,90	$17.20	$17.20	$11.75

POINTS. Discount

Drive Well Points.....80&5%

POKERS—STOVE.

Wr't Iron, str't or bent, per doz.$0 50
Wr't Iron, wood hand'ls " 75
Nickel pl'td. coil hdl's.. " 70

POKES--ANIMAL.

American .....per doz.....$2 60
Brown's.wr't steel " ..$5 25@6 25
Eagle..... " $4 25
Success..... " 2 60

POLES--FISHING.

Bamboo.
Ft. 12 14 16 18 20
Pr 100..$2.75 $3.40 $4.75 $6.00 $7.75

POLISH.

Metal.
Burnishine, ½ pt....per doz..$1 60
1 pt.... " .. 2 60
Pride of the Bar..... " .. 1 60
Putz Cream.

Pts.	1-6	¼	½
Per doz.....	$0.84	$1.25	$1.80

Pts.	1	2	4	8
Per doz.	$3.60	$6.00	$9.00	$18.00

Wondershine

Pts.	1-6	½	1	2
Per doz...	$0.68	$1.30	$2.15	$3.00

Shoe.
M. D. C.....per doz..36c@50c
F. C. O..... " 40c
T. M ..... " 50c@$1 25
Imperial.....per gr.....$5 00
Stove.
Black Eagle, 1 lb cans, pr gr..$12 00
Blackene, 1 lb cans..... " .. 13 60
Black Jack, 1 lb cans.. " .. 9 00
Dixon's Carb. of Iron. " .. 5 75
Enameline..... " .. 4 75
Nickel Plate..... " .. 4 50
Rising Sun ..... " .. 6 00

POPPERS, CORN.

Round or Square, 1 qt. per doz., 85@95c
Square, 1½ qt.....per doz., $1 00
Square, 2 qt.....per doz., 1 30
1 qt. reversible .....per doz., 1 60

POTS—FIRE.

Bernz.....each..$3 85
Clayton & Lambert's,each.$4 75@6 25
Gate City.....each.. 6 25
Gem ..... " .. 6 75

POWDER.

See Ammunition.

PRESSES—FRUIT AND JELLY.

Enterprise Manufacturing Co... 25%
Henis .....per doz. $2 10

PRUNERS.

Disston's Pole.....per doz..$7 50
Henry's Improved..per doz..65&10%
Water's Improved. " 75%

PULLERS.

Cork.
Modern.....each..$2 60
Quick and Easy..... " .. 2 90
Nail.
Giant.....per doz..$9 00@10 50
Giant Pattern. " .. 6 00
Tack--Giant .... " .. 60

PULLEYS.

Awning--Jap'd.....35&5%
Clothes Line..... .....30%
Hay Fork.
Iron Wheel, 5 in .....per doz..$1 70
Wood Wheel, 6 in ... " .. 1 60
Wood Wheel, 6 in... pass knot..... " .. 1 75
Hot House--Jap'd 33⅓%
Screw..... " 35%
Side..... " 35%
Sash.
Chicago .....per doz..$0 29
Clark's..... " .. 42
Common Sense, 2 in.. " .. 26
" Pattern, 2 in.. " .. 21
Empire..... " .. 22
Ideal..... " .. 21
Ott mwa ball b'ring " .. 38
Grand Rapids, No. 17 " .. 28
" " No 11 " .. 24

PUMPS

Pitcher Spout.
Nos. 1 2 3 4
Each.....$0.98 $1.10 $1.20 $1.45
Spray.
Blizzard.....per doz..$14 25
Cyclone, tin..... " .. 3 90
" copper..... " .. 6 75
Daisy..... " .. 8 75
Little Giant.....each.. 2 40

PUNCHES.

Conductors', No. 22.....per doz..$2 50
Machine.....per lb . 19
Saddlers'.
Common.....per doz..60c@70c
Good..... " ..72c@84c
Spring.
1 Tube .....per doz..$2 25
4 Tube, revolving.... " .. 5 25
Tinners'.
Hollow.....40%
Solid.....each..5¼c

PUTTY.

In Bladders.
Strictly pure .....per 100 lbs. $2 35
Commercial ..... " " 2 10

RAIL.

Barn Door.
Light Wrought.. .....per ft. 3c
Safety .... " 5¼c
Single Flange ..... " 1¾c
Sliding Door.
Painted iron .....per ft. 4¼c
Bronzed wr't Iron..... " 8¼c

RAKES.

Coal or Road.....per doz. $5.25
Garden.
Steel, braced .....70&10&5%
Steel, bow.....70,5,10&5%
Malleable iron, heavy.....70@10%
Hay—Wood.....per doz. $1 05@1 70
Lawn—Wood.
Common .....per doz. $2
Automatic..... " 6 00
New Lawn Queen .... " 3 60
Jumbo, 36 teeth ..... " 5 75

RASPS—See Files.

REGISTERS.

List Sept. 1, 1901.

Black Japanned, White Japanned, Bronzed Finishes, Nickel Plated, Electro Plated Brass, Bronze or Copper.....70&10%

RINGS

and Ringers—Hog.
Blair's Rings .....per doz. 60c
Blair's Ringers ..... " 84c
Brown's Rings..... " 65c
Brown's Ringers..... " 90c
Champion Rings..... " $2 35
Champion Ringers..... " 1 70
Hill's Rings..... " 42c
Hill's Ringers..... "70c@95c
Mazor Rings ..... " 80c
Mazor Ringers ..... " $1 15
Perfect Rings ..... " 84c
Perfect Ringers..... " $1 65
Wolverine Rings..... " 1 50
Wolverine Ringers.... " 70c
Bull.
Copper, 2¼-in. 3-in.
per doz..... $1 35 $1 70
Steel.....per doz. 95 1 65
Steel, Nickel Pl't'd, 2¼-in., doz. 1 35
Rea's Self Piercing.. .....$1.95
Fruit Jar—White .....per lb. 30c
Key.
Split, round.....per doz. 16c
Split, square ..... " 22c
Ball, round..... " 22c

RIVETS.

and Burrs.
Copper Belt .....50&10&5%
Coppered Iron 75%
Tinners'.....75%
Hame.....per lb. 8c
Slotted Clinch .....per doz. 70c@75c
Tubular—Nos. 1 and 2, assorted sizes.....per doz. 60c

ROPE.

Per lb.

Manila, 7-16 inch diameter and larger.....13¼c "
Sisal, 7-16 in. and larger.. 9¼c "
Cotton.
¼ and 5-16-in. on reels...per lb. 12c
¼ and 5-16-in. in coils... " 13¼c

RULES.

Boxwood .....40%@40&10%
There is no regular discount on Boxwood Rules. They are now sold net.
Ivory .....35&5%

SASH WRIGHTS.

Per ton.....$23.50

SAWS.

Back.
Disston's.....25&5%
Jackson's .....25&5%
Butchers'—Disston's.....40%
Circular.
Disston's.....50%
Biles' 50%
Compass.
Common .....per doz. $1 35@1 60
Disston's.....25&5%
Cross-Cut.
Atkin's.....40%
Disston's.....40&10%&50%
Pocahontas Bit.....per ft. 35c
Pocahontas, Blued ..... " 41c
Dehorning.
Atkins' .....per doz. $5 50
Disston's ..... " 5 75
Hack.
Disston's.....30%
Keystone.....30%

SAWS—CONTINUED.

Hand and Rip.
Brown's ....30&5%
Disston's No. 7 ....30&5%
Disston's Nos. 8, D8, 12, 76, D100, and 120 ....25&5%
Gorham's Comb ....30&5%
Keystone ....30&5%
Sam Sickles', hand...per doz. $4 25
"I Will," hand .... " 5 75
"I Will," rip .... " 6 75
"U. S. A." hand .... " 12 25
"U. S. A." rip .... " 14 25
Keyhole—Disston's ....25&5%
One Man 50%
Panel.
Brown's ....30&5%
Disston's No. 7 ....30&5%
Disston's Nos. D8 and 12 ....25&5%
"I Will" 40%
"U. S. A." ....40&10&5%
Pruning.
Avery's Duplex ....25&5%
Brown's ....25&5%
Disston's ....25&5%
Wood.
Common ....per doz. $4 50
Handy .... " 7 50
Happy Medium .... " 7 00
Wood Sawyers' Delight " 8 25

SAW SETS.

Common Lever ....per doz. $ 1.20
Stillman's Lever ....per doz. 1.30
Leach's ....per doz. 5.00
Nash's ....per doz. 4.20
Monarch ....per doz. 6.50
Morrill's, Old Style ....per doz. 5.00
" No. 1 ....per doz. 7.25
" No. 3 & 4 X Cut. per doz. 11.50
" No. 11 ....per doz. 8.40
Aiken's Pattern ....per doz. 3.50

FRAMES—SAW.

Common, plain ....per doz. $1 20
" painted .... " 1 60

SCALES.

Counter.
Fairbank's Standard 40%
Hatch's ....per doz. $21 50
Little Detective, 1 2 6
Each $1 65 1 85 1 80
No. 1 Tea ....per doz. 7 75
Union Platform ....each 2 35
Pelouze 25%
Turnbull's Market 50%
Platform.
Common, 600 800 1000
Each $8 75 9 75 10 75
Chicago Standard ....33⅓&40%
Fairbank's Standard 40%

SCOOPS.

Ames ....10&10%
Eastern Pattern. Socket Strap.
Nos. 2 3 4 5 6
Per doz. $9.00 9.25 9.50 9.75 10.00
Nos. 7 8 9 10 12
Per doz. $10.25 10.50 10.75 11.00 11.50
Western Pattern. Socket Strap.
Nos. 1 2 3 4 5
Per doz. $8.50 8.75 9.00 9.25 9.50

SCRAPERS.

Box.
Stanley's Adjustable, per doz. $3 60
Triangular .... " 2 10
Cabinet.
Ajax ....per doz. $2 25
Cast Steel .... " 65c@75c
Stanley's No. 80 .... " $7 75
Road.
Cubic ft. 7 5 3
Without runners, ea. $4.50 4.20 4.00
With runners .... " 4.75 4.50 4.25

SCREWS.

Bench.
Iron 40%
Wood, white maple..per doz..$3 60
Hand—Wood 20%
Hand Rail ....70&10%
Jack ....75&5%
Lag or Coach. Gimlet Point..70&10%
Saw—Centennial.
Nos. 1 2 3 4
Per doz. 22c 25c 32c 35c
Wood.
F. H. Bright Steel ....90&10%
R. H. Blued Steel ....85&10%
F. H. Jap'd Steel ....80&15%
F. H. Brass ....85&10%
R. H. Brass ....80&15%
R. H. Nickel Plated ....75&10%

SCYTHES.

Clipper, grain ....per doz..$8 75
Dutchman, grass .... " 5 50
Golden Clipper, grass. " 5 25
U. S. A., grass .... " 6 50

SETS.

Nail.
Round, common ....per doz..$0 33
Square " .... " 42
Octagon " .... " 33
Square, Buck Bros. " 1 25
Cup Point, knurled, pr doz. 70c@90c
Rivet.
Farmers' ....per doz..$1 45
Tinners' ....50&10%
Saw.
Aiken's Pattern ....per doz..$3 50
Common Lever. .... " 1 20
Disston's Monarch .... " 6 50
" X Cut .... " 11 75
German .... " 1 35
Morrill's Old Style .... " 5 00
" Pattern .... " 4 50
Leach's .... " 4 80
Nash's Hand .... " 4 00
" X Cut .... " 5 50
Stillman's Lever .... " 1 30
" X Cut .... " 2 50

SHARPENERS—SKATE.

Diamond ....per doz..$1 60

SHAVES—SPOKE.

Iron ....per doz..$1 15@$2 25
Wood .... " 2 75@ 4 75
Bailey's ....50&5%
Goodell's 15%
Stanley's Universal ....30&5%

SHEARS.

Pruning.
Buckeye, No. 1 ....per doz..$6 50
" No. 2 .... " 8 50
California Pat., 9 in. " 4 25
" 10 in. " 5 00
Draw Cut, No. 3 .... " 15 50
" No. 4 .... " 18 50
Henry's Pat. 0 01 14 012
Per doz...$1.90 $2.50 $3.15 $3.50
Star ....per doz..$4 75
Sheep—No. BBA.
6 in. 6½ in. 7 in.
Reg. Grip..$11.00 $11.35 $12 00 doz.
Nar. Grip.. 11.20 11.00 12.15
Tinners'—See Snips.

SHEAVES—SLIDING DOOR.

In. 3 4 5
Common..Per set..$0.34 $0.42 $0.68
Hatfield'd. " .. .75 1.00 1.60

SHELLERS—CORN.

Union ....per doz..$8 00

SHOT—See Ammunition.

SHOVELS AND SPADES.

Railroad, Etc.
Gold Hibbard's ....per doz..$10 00
C. H. Conovers's .... " 9 25
Beckwith's .... " 9 25
Hickory .... " 8 50
Greenleaf's .... " 7 25
Columbus .... " 7 00
Ames' new list ...Discount 10&10%
Coal.
No. 2 Ajax ....per doz..$8 00
No. 2 Bear .... " 5 25
Ames' new list...Discount 10&10%

SIEVES.

Champion ....per doz. $1.00
Hunter's Genuine .... " 1.20
" Imitation .... " 1.00
Tin Rim, 16 mesh plain wire" 1.35
Wood " 16 mesh plain wire" .85

SINKS.

Cast Iron.
Painted ....50&10&5%
Enameled, White ....60&10&5%
Wrought Steel.
New Era 50%

SLEDGES—See Hammers.

SNAPS—HARNESS.

Champion 65%
German Pattern ....30&5%
Judd's Pattern ....60&10%@70%

SNATHS.

Double Ring, Bush ....per doz..$6 50
Patent Loop " .... " 7 00
" " Brass .... " 6 25

SNIPS—TINNERS'.

Hernisch's ....40&5%
National ....40&5%
P. S. & W. Co.'s ....25&5%

SOLDER.
See Metals, Column 1

SPRINGS—DOOR.

Perfect. Nos. 1 2 3 4
Per doz. 35c 40c 45c 50c
Reliance, Light $1.40. Heavy $2.20 doz.
Star .... " .90, " 1.30 "
Torrey's ....per doz..$1 35
Warner's ....per doz..68c@$1 35

SQUARES

Steel and Iron ....70&5%
(Add for Bluing, $2.50 per doz., net.)
Mitre—Stanley's No. 12 ....40%
Try.
Stanley's No. 20, new list ....40&5%
" Nos. 12 and 14 ....40%
Try and Bevel—Stanley's ....40&5%
Try and Miter.
Fox's ....per doz..$7 25
Winterbottom's 50%

SQUEEZERS—LEMON.

Common Wood ....per doz..$0 72
Porcelain Lined, wood. " 1 30
Boss, tinned iron .... " 90
Pearl, nickel plated .... " 1 30
Star " " .... " 1 60
Little Giant, tin'd iron " 4 25
King .... " 2 40
Drum .... " 4 25

STAPLES.

Blind—Barbed ....per lb. 9½@10c
Butter Tub .... " 8@8½c
Fence, less than carload.
Polished ....per 100 lb. $2 40
Galvanized .... " 2 80
Netting—Galvanized ....per keg 3 60
Wrought.
Wrought Staples, Hasps and Staples, Hasps, Hooks and Staples, and Hooks and Staples ....85&10%
Extra heavy 80%

STEELYARDS.
Discount 25%

STONES.

Axe.
Hindostan ....per lb. 5¾@7c
More Grit .... " 9½c
Washita .... " 16½c
Emery ....60%@60&5%
Oil—Unmounted.
Arkansas Hard ....per lb. $2 00
Arkansas Soft .... " 1 15
Hindostan .... " 6¼@6¾
Lily White .... " 43c
Queer Creek .... " 14¼c
Ouachita .... " 35c
Washita .... " 25c
Sythe.
BlackDiamond ....per gro. $7 75
Clear Grit .... " 4 25
Gem Corundum .... " 7 50
Green Mountain .... " 4 20
La Moille .... " 7 00
Pikes Gen. No. 1, Ind. Pond., per gro 4 75
White Mountain ....per gro. 6 50
Willoughby Lake .... " 6 25
Red End .... " 3 15

STOPS—BENCH.

Hotchkiss' ....per doz. $3 60
Morrill's No. 1 .... " 5 75

STOPPERS—FLUE.

Common ....per doz. 42c
Crown .... " 48c
Gem, flat, painted .... " 72c
Gem, cor'd, decorated .... " 68c
Kirch's .... " $1 20
Peerless .... " 72c
Skinner's Common Sense " 95c

STRAPS.

Scoop ....per doz. prs. $1 80
Skate .... " " 60@70c

STRETCHERS.

Carpet.
Bullard's ....per doz. $3 90
Excelsior .... " 5 50
Malleable Iron .... " 65
Perfection .... " 6 00
Wire.
N. S. Elwood's ....per doz. $5 00
O. S. Elwood's .... " 5 25
Little Giant .... " 4 75
Star Lever .... " 6 25
Star Tackle Block .... " 9 25
Warner's .... " 6 25

SWEEPERS.

Carpet—Bissel's.
Standard ....per doz. $21 00
Grand Rapids Jap'd. " 23 00
Grand Rapids Plated " 25 00
Baby .... " 2 10
Little Jewel .... " 6 25
Misses' .... " 9 75
Lawn—Finley 10%

SWIVELS.

Malleable Iron ....per lb. 6½c
Wrought Steel ....per gro. $4 50

TACKS.

American Cut ....90&5%
American Wire ....85&25&10%
Bill Posters' Cut ....90&40%
Blued Carpet ....90&15%
Tinned Carpet ....90&15%
Gimp ....90&30&10%
Upholsters' Cut ....90&40&5%
Upholsters' Wire ....90&25%
Double Pointed ....90&20%
Copper ....per lb. 26c
Canvas Nails ....75&5%
Clout Nails ....75&10&5%
Hungarian Nails ....80&5%

TAPES—MEASURING.

Asses' Skin ....40&5%
Bend Leather 20%
Chesterman's 25%
Patent Leather 20%
Lufkin's 30%
Rival Steel ....40&10%
Pocket ....per doz. $2 00@$3 50

TENTS AND PAULINS.

Wall Tents ....50&20&10%
Wedge Tents ....50&10&5
Paulins ....50&10&5%
Wagon Covers ....50&10&5%

THERMOMETERS.

Tin Case ....per doz., 95c@$1 25
Wood Back .... " $1 75@ 9 00
Glass .... " 15 50

TIES.

Bale.
Single Loop ....80&10&5%
All other kinds ....65&10%
Cow—See "Chains."

TONGS.

Crimping—Packham's ...per pair 50c
Gutter—P. S. & W. Co.'s ....15&10%
Pipe—Brown's 50%
Roofing—P. S. & W. Co.'s ....15&10%

TOOLS—SAW.

Atkin's Dexter ....per doz. $4 25
Atkin's Excelsior .... " 6 25
Disston's Universal 40%
McDonald's 33⅓%
Simond's Crescent ....per doz. $10.00

TRAPS.

Game.
Hawley & Norton 70%
Newh use. 50%
New Victor 80%
Mole—Reddicks ....per doz. $5 75
Mouse and Rat.
Wood Choker ....per hole 10c
Tin Choker .... " 11c
Delusion ....per doz. 85c
Out-o' ight, Mouse .... " 65c
Out-o' Sight, Rat .... " $1 35
Imitation Sight, Rat .. " 80c
Marty Rat .... " $6 75
Marty Rat, Imitation .. " 3 75
Marty Mouse .... " 3 15
Marty Mouse, Imitation " 2 10
E-Z-Ketch, Mouse .... " 42c
E-Z-Ketch, Rat .... " 90c
French Automatic .... each $3 60
Fly.
Balloon ....per doz. $1 25
Harper's .... " 1 35

TROUGH—EAVE.

Eastern .... Discount 80%
Central .... " 75&17½%
South Western .... " 75&5%
Missouri River .... " 75&17½%
Southern .... " 75&17½%

TROWELS.

Brick.
Standard 30%
Brade's ....10&7½%
Disston's 30%
Rose's 25%
Plasterers'.
Standard 33⅓%
Disston's 30%
W. & McP 25%

TRUCKS.

Bags ....each $1 60
Handy .... " 1 35
Warehouse ....60&5%

TUBS-WASH. Ex.

No. 3 2 1 large
Standard, per doz. $5.25 6.25 7.25 9.75
Dowel .... " 5.60 6.60 7.50 10.00
Cedar .... " 6.50 7.50 8.25
Indurated. " 7.20 7.95 9.45 11.70
Galvanized.
No. 1 2 3
Per doz $6.00 6.50 7.25

VISES.

Bonney's 30%
Cheney's 20%
Parker's Oval Slide ....50@50&10%
Parker's Parallel ....15@20%
Parker's Victor 10%
Parker's Combination ....5 &10%
Solid Box 50%
Adam's Mechanics' ....each $2 50

WARE,

Cast-Iron Hollow.
Ground ....50&10&5%
Unground ....60&5%
Extra Finished ....40&10&5%
White Enameled ....40&10&5%
Maslin Kettles ....65&10%
Enameled.
Adamant, one coat, 70&10% @75&10%
The manufacturers divide this ware into two classes, which take different discounts, noted above.
Crysolite, three coat ....40&5%

WASHERS.

Leather. In. ⅝ 1 1⅛ 1¼ 1⅜
Nut, per C 16c 17c 19c 25c 32c
Collar, per C ...35c 40c 40c 43c
Wrought Iron.
In. ¾ 5-16 ⅜ ½ ⅝ ¾ to 1
Per lb. 8½c 7½c 6½c 5c 4½c 4¼c
Wrought Steel.
In. ¼ 5-16 ⅜ ½ ⅝ ¾ to 1
Per lb. 9½c 8½c 7½c 6c 5½c 5¼c

WEDGES.

Ax ....per doz. 30c
Galling ....per lb..10½c
Saw .... " .. 8½c
Wood Choppers.
Lake Superior and Oregon, Pat ....per lb.. 9½c
Reg. Pattern, Steel .... " .. 4 c
Truckee " " .... " .. 4½c

WEIGHTS.

Hitching ....per lb..2½c
Sash—F.O.B. Chicago..pr ton..$28.00

WHEEL BARROWS.

Common Railroad ....per doz..$12 75
Heavy " .... " .. 19 50
Railroad, ball bearing " .. 19 00
Santiago Steel Tray.. " .. 26 50
No. 04 Steel Dirt .... " .. 51 00
No. 04½ " " .... " .. 55 00

WHEELS.

Emery and Corundum ....75&5%
Well. In. 8 10 12 14
Per doz.... $1.90 $2.20 $3.00 $5.50

WIRE.

Barbed. Painted. Galv'd.
Carloads...pr 100 lbs..$2.35 $2.65
Less than car " .. 2.40 2.70
Brass.
In coils 20%
In 1 lb. spools, new list ....50&10%
Broom—Tinned .... 60&10&10&10%
Cable—Same price as Barbed Wire.
Copper.
In coils ....20&10% 33⅓%
In 1 lb. spools, new list ....50&10%
Fence—Smooth.
Nos. 6 to 9, Annealed, pr 100 lbs. $2.20
Nos. 6 to 9, Galv'd .... " 2.60
Hair—New list ....50&10%
Market.
Bright, full bdles ....75&2½%
Bright, broken bdles ....70, 10&5%
Coppered, full bdles ....70&7½%
Coppered, broken bodles ..70&2½%
Tinned, full bdles ....70, 10&5%
Tinned, broken bdles ....70&5%
Picture.
In coils ....80% @80&10%
In 5 lb. spools ....per lb..26c
Plain—Small lots $2.00
Car lots 1.95
Small spools 5c per hundred higher

WRENCHES.

Acme Standard 60%
Alligator ....65&5%
Always Ready ....40&10&5%
Bemis & Call 40%
Coe's Standard ....40&10%
Girard's Agricultural ....60&5%
P. S. & W. Co.'s Agricultural 75%
" " Knife H'dle..50&5%
Wescott's "S" 33⅓%
Malleable ....per lb..6c
Stillson Pipe ....60&5%
Trimo " 60%

WRINGERS.

Clothes.
Nos. 22&110. Guarantee, pr doz. $28 00
No. C 350, Novelty .... " 22 50
No. 3, Empress .... " 25 50
No. 150, Sunshine .... " 18 00
No. 130, Mendota .... " 18 00
No. 12, Success .... " 16 00
No. C 500, Royal .... " 28 00
Blue Bell Ball Bear'g. " 25 00

Wants and Sales.

For yearly subscribers to THE AMERICAN ARTISAN will be inserted under this head advertisements of six lines WITHOUT CHARGE, for employers wishing to secure employes, persons seeking situations, parties desiring to purchase a business, businesses for sale, partners wanted, to exchange, etc. Those who respond to these announcements will please mention that they read the advertisement in THE AMERICAN ARTISAN.

BUSINESS CHANCES.

PATENTS HUBERT E. PECK, 623 F St., N. W., Washington, D. C. Consulting Expert in Patent Causes, U. S. and Foreign Patents. Send for leaflet on "Rejected Patent Applications." Honest work but no "Something for Nothing" offers.

For Sale—A stock of hardware in one of the best towns in northeastern Iowa. Stock is clean and will invoice about $5,000; good reasons for selling. Address A. E. Flick, Dubuque, Ia. 16

For Sale—A nice, clean stock of hardware and farm implements, tinner's and pump tools, good location, good business, good reasons for selling. Address Lock Box 107, Holland, Minn. 16

For Sale—One P. S. W., 30 in. formers and one 30 in. Wright's folder, both are in good shape and will sell them cheap, or will trade them for a second-hand P. S. W. groover, 20 in. M. V. Secor, Winnebago City, Minn. 16

For Sale—Hardware business located in prosperous farming and manufacturing center; tin shop in connection; stock clean and well assorted; will inventory $3,000; must sell on account of sickness; a rare opportunity. Address Hardware, 55 Stephenson St., Freeport, Ill. 16

For Sale—Hardware, tin shop, paints, oils, in fine country town of 1,000. Stock invoice $2,100; have electric light, water works; also have in store; 60 miles northwest Chicago; never known to have failure in crop; sales $7,500 a year. Reason for selling sickness. Sell reasonable if taken at once. Address, "Reasonable," Care of The American Artisan, 69 Dearborn St., Chicago, Ill. 16

For Sale—Stock of hardware, stoves, ranges and furnaces; tin and cornice shop in connection. Centrally located in Denver, Colo. Stock is clean and up to date; the location is well established, having done business at this stand for twelve years. Must sell on account of sickness. Now is the time to buy, as the fall trade is just starting. Address "Fall Trade," Care of The American Artisan, 69 Dearborn St., Chicago, Ill. 16

Wanted to Buy—A hardware stock from $3,000 to $4,000. Address A. E. Glines, Rockwell, Iowa. 15

I have 1,040 acres of choice farming land in the famous Red River Valley, Minnesota, rich black soil, where crops are always a certainty and values fast advancing. Will exchange all or part of this land on equitable basis for good stock hardware. Address "Farm Exchange," Breckenridge, Minn. 15

Clean hardware stock, invoicing $5,000; selling $15,000 and clearing $6,000 annually; reason for selling owner does not want the responsibility of business longer; correspondence solicited from those meaning business; stock located in heart of a properous city of one hundred and fifty thousand people and splendid climate. Address "Eureka," Care of The American Artisan, 69 Dearborn St., Chicago, Ill. 15

For Sale—For cash only, exceptional opportunity offered, my stock of about $3,000 of hardware, stoves, tinner's tools and tin shop stock in a small town; established 27 years; northern Illinois; trade mostly cash, where crop failures are never known and land selling at $100 an acre. Furniture may be added as there is no furniture sold in town. I will rent two-story brick store or sell it. Address "Furniture," Care of The American Artisan, 69 Dearborn St., Chicago, Ill. 14

For Sale—Good clean stock of hardware with tin shop in connection; also a line of the best paints and oils; will invoice about $3,500; no opposition; a live town in southern Wisconsin; best of farming land; new chair factory will start Nov. 1. Address Lock Box 31, Brooklyn, Wis. 14

I have full line of corrugated conductor pipe machinery, best made; want partner experienced salesman with $5,000, to start plant in West. Send references with inquiry. "West," Care The American Artisan, 69 Dearborn St., Chicago, Ill. 13

For Sale—Hardware, stoves, tin and plumbing shop, in good Illinois town of 1,000 population, northwest of Chicago, doing a $7,500 business; clean stock; invoice about $2,200; fine chance for a hustler; reason for selling, sickness. Address S. H., Care of The American Artisan, 69 Dearborn St., Chicago, Ill. 13

TINNERS' TOOLS.

For Sale—One Auld & Conzer plate punch and press; cheap. Guaranteed good as new. Used only a short time. J. H. Allion, Fayette, O. 16

Wanted—30 in. P. S. & W. adj. bar folder; also No. 1 or 2 Breakhorn stake. These tools must be in first-class condition. Address John H. Roberts, 241 Eighth Ave., West Homestead, Pa. 14

Wanted—Second-hand squaring shear, 30 in., in perfect condition. State price and style. Address "W. D. Z.," Care of The American Artisan, 69 Dearborn St., Chicago. 14

For Sale—A set of tinner's tools, cheap; have been used but a short time. Were new when I bought them. L. J. Eneboe, Woonsocket, S. D. 14

For Sale—Complete set tinner's tools, machines and stakes as good as new, cheap. Address Louis Spengel, Highland, Ill. 14

For Sale—One-horse power Olds steam engine with boiler attached and gasoline burners. For particulars address Wm. Matt, Fort Dodge, Iowa. 12

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Wanted—Steel range makers and mounters and stove plate moulders at Chicago Heights. Bonnet-Nance Stove Co. 16

Wanted—A steady man; tinner, plumber, steam fitter and cornice man; good wages and steady job for a good man. C. S. Barger, Albia, Ia. 16

Wanted—Three tinners and two cornice workers, at once, at good wages and union shop. Mason City Sheet Metal Works, Lock Box 505, Mason City, Iowa. 16

Wanted—Steady, sober tinner. To the right man employment at good wages by the year; one who has had experience in furnace work. W. E. Bennett, Fond du Lac, Wis. 16

Wanted—A practical tinner and hardware man, for good reasons out of employment, wants a job, or a chance to buy into a business, or to start for himself; anything to make some money and get it right. Address P. O. Box 7, Lytton, Iowa. 16

Steady employment for a satisfactory journeyman tinner. Address H. G. Cormick, Centralia, Ill. 15

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Wanted—Tinner or sheet metal worker; permanent position. In writing state experience and give references. E. E. Gould, Beaver Dam, Wis. 15

Wanted at Once—A good tinner who understands plumbing; must be sober and steady. Steady job and good wages. Newtson Bros., Fowler, Ind. 15

Wanted—A first-class competent and reliable hardware man. One acquainted with mining and milling supplies preferred. Applicants address "Michigan," Ishpeming, Mich. 15

Wanted—At once, a good sober all-around tinner; must be sober and a hustler; good wages and steady employment will be given to the right man. Address C. A. Wyckoff, Morrisonville, Ill. 15

Wanted—A tinner for general shop and outside work in tin line, a man who understands the business and willing to work, must be sober and steady; steady job; state wages wanted. Address P. O. Box 346, Runnells Bros., Sioux Falls, S. D. 15

Wanted—A steady, sober man who understands tinning, plumbing and heating; steady work to the right man; must give reference. Dawley Hdwe. & Furn. Co., Rocky Ford, Colo. 14

Wanted—At once, a competent tinner and furnace man; references as to ability, honesty and sobriety; good wages and permanent job to right man. Address Stewart Lumber Co., Dow City, Ia. 14

Wanted—First-class traveling salesman, familiar with gas, gasoline and oil stove line; state age, experience, etc. Address Box 87, Station B, Cleveland, Ohio. 14

Wanted—Superintendent; man capable of taking entire charge of manufacture department of stove and range plant. Address The Globe Stove & Range Co., Kokomo, Ind.

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Situation Wanted—By a good all round tinner in a country shop where I can have full charge of shop. I understand pump and pipe work, repairing of all kinds, roofing and spouting. I am single, age 26 years, strictly honest and sober. Prefer town of 1,500 to 2,000. W. W. Welton, Stoughton, Wis. 16

Situation Wanted—As a store or hardware salesman; have been in this business all my life; best of references furnished; 22 years old. J. R. G., Box 101, Monticello, Ind. 15

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Situation Wanted—A position as traveling salesman or resident agent by a man with practical experience of 18 years in the sheet metal, furnace, hardware and kindred lines. Address G. W. H., Care of The American Artisan, 69 Dearborn St., Chicago, Ill. 15

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Profitable hardware business doing retail and wholesale trade. Stock $12,000 to $13,000; can be educed in 30 days to $8,000. Located one of best towns central N. Y. State; population 45,000 and increasing. Liberal terms can be arranged on purchase. Investigation invited. Address, Hardware Company, care The American Artisan, 69 Dearborn St., Chicago, Ill. 12

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Hardware, plumbing and heating business in one of the best towns in Northern Illinois; doing a fine business; must sell in 30 days; terms reasonable. This is a chance of a life time, if you want a clean, up-to-date stock. Best of reasons for selling. Address "BOX M. S." care THE AMERICAN ARTISAN, 69 Dearborn Street, Chicago. 16

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1 30 in. Roll Paint Machine for painting strip tin or iron roofing $15.00
1 Lever Punch and Dies from ⅛ in. to ½ in., cost $40.00 ..... 15.00
1 Burritt's 28 in. cross Lock Seamer for putting tin together 10.00
1 Emery Grinder and Countershaft, 16 in. swing 15.00
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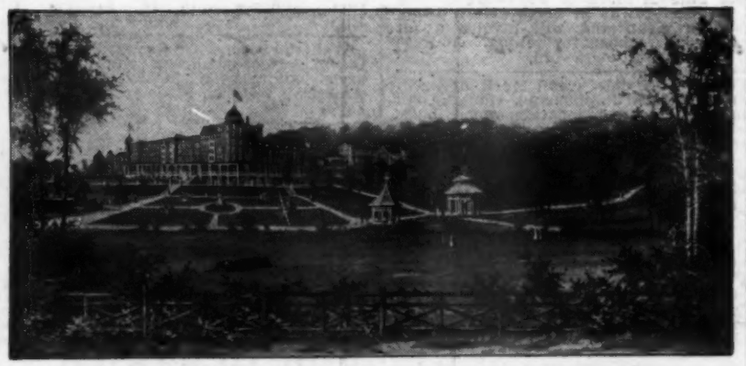

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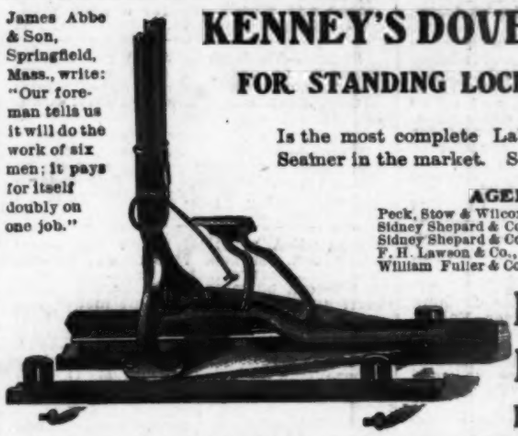

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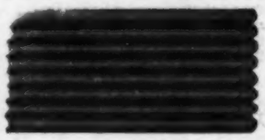

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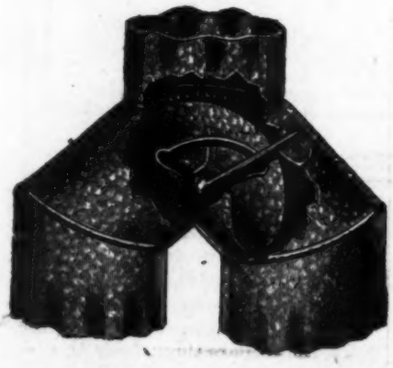

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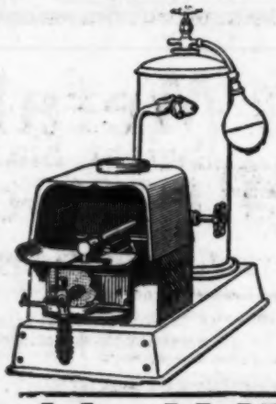

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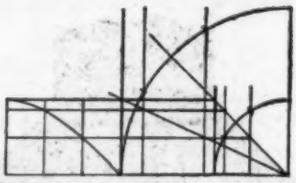

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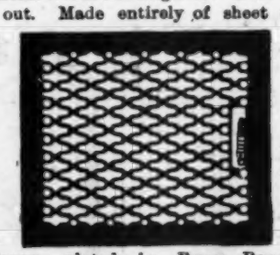

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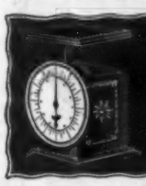

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This cut free to dealers.

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Manufacturing is rapidly developing along the lines of the Chicago, Milwaukee & St. Paul Railway. Industries on a large scale now extend to the Mississippi River with indications of reaching the Missouri. Machinery and all the higher classes of manufactured goods are now being exported from this business territory to all parts of the world.

The Chicago, Milwaukee & St. Paul Railway Company's 6,600 miles of railway, exclusive of second track, connecting track or sidings, traverses eight states, namely:

NORTH DAKOTA	MINNESOTA	NORTHERN MICHIGAN
SOUTH DAKOTA	IOWA	WISCONSIN
Express Passenger Trains, Fast Freight Trains Throughout.	MISSOURI	ILLINOIS

which comprise a territory full of natural resources and advantages. This railway is geographically well located in relation to the great markets and distributing centers. Beyond its lines is a vast and rapidly developing territory extending to the Pacific Coast.

The Company gives unremitting attention to the development of local traffic along its lines and, with this in view seeks to increase the number of manufacturing plants on its system, either through their creation by local enterprise or the influx of manufacturers from the east. It has all its territory districted in relation to resources, adaptability and advantages for manufacturing. Specific information furnished manufacturers in regard to suitable locations. Address,

LUIS JACKSON,
Industrial Commissioner C., M. & St. P. R'y.
660 Old Colony Bldg., Chicago, Ill.

F.D. BURGESS
WAUPACA, WIS.,
WRITES, FEB. 5, 1901:

"I advertised a set of Tinners' Tools in your paper and have sold them, and I have received letters from parties wanting them, from all parts of the United States. That goes to show that The American Artisan has a great circulation."

It's a Hold-Up

to ask a dealer to give good money for poor stove polish. There is one polish that is made of first-class materials. Its name is **Black Silk Stove Polish,** and it is quickly applied and invariably gives satisfaction. We are exclusive manufacturers.

Black Silk Stove Polish Works, Sterling, Ill.

LEWIS D. WYNN, Proprietor.

We Can Ship Promptly

Repairs for all stoves made in New England. ∴ Western dealers should make a note of it

THE S. M. HOWES CO., Boston, Mass.

MICA

ASSORTED PACKAGES

PUT UP EXPRESSLY FOR THE RETAIL TRADE

ONE POUND—4 SIZES.

¼-lb. Each Size.

NORTH CAROLINA $2.00
WYOMING 1.70

4½ x 6 | 2¾ x 3¼ | 2½ x 3 | 2 x 5

TWO POUND—8 SIZES.

¼-lb. Each Size.

NORTH CAROLINA $3.80
WYOMING 3.25

2 x 3 | 3 x 3 | 2¾ x 3½ | 2½ x 5
2 x 4 | 3 x 4½ | 2½ x 3 | 4½ x 6½

THREE POUND—12 SIZES.

¼-lb. Each Size.

NORTH CAROLINA $5.25
WYOMING 4.25

4½ x 5 | 2½ x 3 | 2¾ x 4 | 5 x 6½
2¾ x 4½ | 2 x 3 | 2 x 4 | 2½ x 5
3 x 3 | 2 x 4½ | 2¾ x 2¾ | 2¼ x 3¼

ABOVE PRICES NET. NO DISCOUNT.

EUGENE MUNSELL & CO.

NEW YORK CHICAGO

Sheet Steel

DRAFT REGISTER

With Screws Complete.

No Cotter Pins or Washers

Stock Sizes 2½ to 5¼ inches.

Send for price.

THE H. A. MATTHEWS MFG. CO.

SEYMOUR, CONN.

"Nothing except the mint can make money without advertising."—Gladstone.

Champion Stove Clay

The only Stove Lining made of crucible materials.
Packed in 2½ lb., 6 lb., and 10 lb. pasteboard boxes and also in bulk.
Order it from your jobber.
The best and most refractory lining made.

BRIDGEPORT CRUCIBLE CO.

BRIDGEPORT, CONN.

L. B. HOOKER, Sturgis, Mich., writes:

"Your paper is a grand success. I believe no tinner or plumber should do without it. I try to keep up with the times and the only way is to find out what other shops are doing, and the way to do that is to take The American Artisan."

REPAIRS FOR ALL STOVES AND FURNACES

Stove Rods, Paste, Stove Putty, Stove Knobs, Pipe Dampers, Mica, Etc.

Wm. T. Dust Co., Detroit.

REPAIRS FOR ALL STOVES AND RANGES,

A. G. BRAUER. 316-318 NORTH THIRD ST. ST. LOUIS MO.

M. Brucker,

Manufacturer and Jobber of

Stove and Range Repairs.

FOUNDRY, OFFICE AND WAREROOMS

325 to 331 North Lincoln St.,

CHICAGO.

DO YOU WANT

STOVES AND HEATERS

that are easily sold and STAY SOLD. We have been very successful in designing patterns for such.

The Gobeille Pattern Co.

CLEVELAND, OHIO.

The GEO. W. COPE

STOVE PATTERN WORKS

Randolph and Atwater Sts.

DETROIT, MICH.

PERFORATED METAL

THE ROBT. AITCHISON PERFORATED METAL CO.

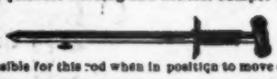
303-305 DEARBORN STREET, CHICAGO, ILL.

The YANKEE Hot Air DAMPER (IMPROVED.)

HOT AIR.

THE YANKEE EXCELS.

Above All—Cheapness—a dealer cannot possibly make dampers as cheaply as we sell the Yankee. Easily put in and taken out of pipes. Stiffest, quickest-working and neatest damper on the market.



It is impossible for this rod when in position to move either way.

ROD POINTS: Has wood enameled handle. Wood handle cannot come off. Washer and spring cannot fall off the rod. Same size of holes are punched on each side of pipe. Rod is made of ¼ in. cold rolled steel and slips into damper very smoothly. Sample sent to any Dealer without charge.

SMOKE PIPE.

The S. M. HOWES CO., Manufacturers, 40-46 UNION ST., **Boston, Mass.**

Acme Oven Thermometer

STYLE "D"

CLOCK FACE THERMOMETER

We claim to have as good a thermometer as there is and better than most of them that are on the market to-day.

All our thermometers are carefully tested by heat and each one is fully guaranteed.

The Acme Oven Thermometer is made in four styles.

Style "A" and "E" have 3 in. Dial
" "C" " "D" " 2⅝ "

Our Style "E" has a flat back and can be adjusted to a drop door where a smooth surface is required.

This cut shows our Style "D" or Clock Face Thermometer. The hand working from the center gives it considerable more movement and a change in the temperature of the oven is quickly noticed on dial.

Write us for circular and quotation.

MANUFACTURED BY

Evans Stamping & Plating Co.

TAUNTON, - - - MASS.

C. H. MATTHEWS, DETROIT, MICH., (Western Agent.)

When You Buy

DIETZ LANTERNS

you get the benefit of our 62 years' experience in Lantern making.

The Lantern shown this week is the *MONARCH,* our leading round tube Lantern. It merits its commanding name. It has all the *DIETZ GOOD QUALITIES,* safety, ease of operation, fine light, handsome appearance.

Insist on your jobber furnishing *DIETZ LANTERNS* (beware of imitations) and ask him or us for our fine new catalogue.

R. E. DIETZ CO.,

99 Laight Street, - NEW YORK.

ESTABLISHED 1840.

"Yankee" Screw Drivers

No. 12—RATCHET, WITH STUB BLADE

HAVE NO EQUALS.

THEY ARE SOLD BY LEADING JOBBERS.

Send for "Yankee" Tool Book.

NO. 11—RATCHET, RIGHT AND LEFT HAND AND RIGID

NO. 15—RATCHET, WITH FINGER TURN ON BLADE

NO. 30—SPIRAL RATCHET, RIGHT AND LEFT HAND AND RIGID

North Bros. Mfg. Co., Philadelphia, Pa.

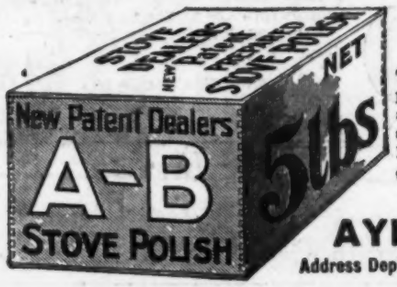
Fox Shaving Sets

contain the "King of all Razors," "The Fox." A good set for Holiday Trade. Send your order now. Trade Mark registered.

FOX CUTLERY CO.,

48 Center St., NEW YORK N. Y. CANANDAIGUA, N. Y. 928 Main St., DUBUQUE, IA.

SAMPLES SENT FREE!



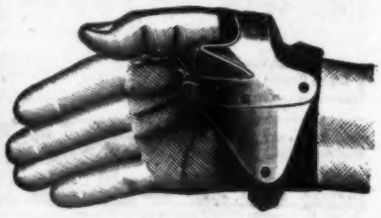
To Stove Dealers and Manufacturers

This new patented prepared powdered stove polish mixes quick, shines easy, black, brilliant and is waterproof. No rust or dust. Cheapest and best polish ever invented. Keeps any length of time in any climate. You make your own paste at once. Investigate for fall trade. It willpay you.

AYLING BROTHERS

Address Dept. A, 8-14 HADDON AVENUE, CHICAGO, ILL.

The Kees Corn Huskers



ARE THE BEST.

Ask your Jobber, or address the Manufacturer,

F. D. KEES, - Beatrice, Nebr.

The NEW CENTURY STOVE PIPE.

Patented June 3, 1902.

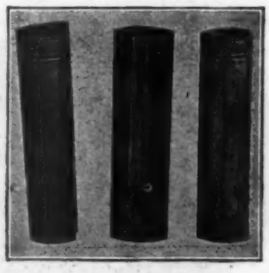


Fig. 1. Fig. 2. Fig. 3.

Fig. 1 shows the fold on the upper end of the pipe, to prevent same from slipping out of its fold; also shows how easily it can be taken apart and put together again.

Fig. 2 shows how nicely the pipe can be set together and nested for storing during the summer in a dry place to prevent rusting. Also makes it handy for shipping and moving from one place to another.

Fig. 3 shows the pipe when put together ready for use.

The New Century Stove Pipe is made up with the same fold as the hand made pipe with the exception of the patent hook between the crimp and beat, therefore can be cut to any length for fitting up stove pipes without spoiling the pipe like other patent stove pipes. Write for prices and sample orders.

A. CLAUSING & CO.

1089 THIRD STREET.

MILWAUKEE, WIS.

American Family Scale.

BEST IN THE WORLD.

It is made of STEEL, TIN or BRASS Scoop Top.

A most beautiful and attractive scale for all purposes. Beautifully enameled, ornamented and striped. Weighs 20 pounds by ounces. Occupies but little space. Is light and easily moved. It can be regulated by turning the brass screw on top. It is always ready and easily understood. It is a convenient scale to use, and has no weights that may be lost. You can look this one in the face to prove its accuracy without looking for weights. Every scale examined before leaving the factory and warranted correct.

MANUFACTURED BY

AMERICAN CUTLERY CO.

CHICAGO, ILLINOIS.

GREAT ODDS 7 in 1...

That's what you get when buying Red Devil Magazine Glass Cutter No. 5. If interested turn to Page No. 48 of the new *Green Book* of Hardware Specialties.

UTICA DROP FORGE & TOOL CO.
Manufacturers of Nippers and Plyers
296 Broadway, - - - NEW YORK CITY

SMITH & HEMENWAY CO.
Manufacturers of
Cutlery and Hardware Specialties.

Ask your dealer for these goods.

Stanley Rule and Level Co.

IMPROVED CARPENTERS' TOOLS Sold by All Hardware Dealers
NEW BRITAIN, CONN.

The Enterprise
Sausage Stuffer and Lard Press

Made in 8 Sizes and Styles. TINNED or Japanned.

Each Iron Cylinder is Bored True

so that when Stuffing all the material must pass through the Spout.

The Lips on the Tin Cylinder

in pressing lard, prevents burning of hands when the Cylinder is taken out for the purpose of removing Hot Cracklings.

The New Patented Spout

furnished with each Stuffer is Corrugated, which prevents air entering the Casing, thus assuring preservation of Sausages.

No. 25, $5.50.

Order from your Jobber. Send for Descriptive Catalogue

The Enterprise Mfg. Co. of Pa.
N. Y. Branch, 10 Warren St. Philadelphia, Pa., U. S. A. San Francisco Branch, 105 Front St.

DISSTON'S
Triumph Saw Set

PATENTED OCT. 31, 1899

THE MOST PERFECT SET EVER MADE.

THE TWO PLUNGERS DO THE WORK, ONE HOLDS THE BLADE THE OTHER SETS THE TOOTH.

Particularly adapted for Hand Saws, and especially for narrow blades, such as Web Saws, Narrow Band Saws, etc.

Henry Disston & Sons, INC.
KEYSTONE SAW, TOOL & STEEL WORKS,
PHILADELPHIA, - - PENNA.

LIGHT

The "Best" Light

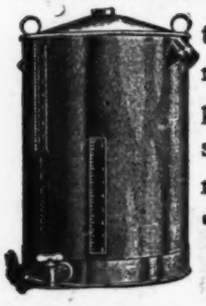
Brighter than Electricity or Acetylene and Cheaper than Kerosene

Makes and burns its own gas. It is portable. Requires no pipes, wires or gas machine. A safe, pure white, powerful steady light. 100 candle power costs 3 cents for fifteen hours. Permitted by Fire Insurance Underwriters. No wicks to trim, no smoke or smell. Saving effected by its use quickly pays for it. Over 100 styles for indoor and outdoor use. This is the Pioneer Incandescent Vapor Gas Lamp. It is perfect. Beware of imitations. Agents wanted everywhere. Every lamp warranted. THE BEST LIGHT CO., 217 East Fifth Street, Canton, Ohio.

LIGHT

WILLIAMS & JOHNSON, Farmer City, Ill., write: ..... "Please take out our ad. for a tinner, as we are supplied. Have been literally snowed with replies and want the 'avalanche' stopped."

The Jersey Cream Separator



takes less than an hour to separate cream from milk. It is beyond a doubt the most simple, practical and reliable separator made. It is sold only to the trade. Prices will be furnished on application.

The Galesburg Cornice Wks.,
GALESBURG, ILL.

THE SURPRISE CREAM SEPARATOR.

Pat. Applied For.

The milk is not mixed with the water. Skimmed milk not diluted with water is worth money to the farmer.

Write for prices and secure agency.

Every Separator Guaranteed.

Made of best heavy tinplate and is durable.

SEITHER & CHERRY CO.,
KEOKUK, IOWA.

Do You Know

That the **O. K. WASHING MACHINE** is the best made, the lightest running and the most attractive washer on the market? *Are you selling it? If not, why?* Every first-class dealer should sell it, because it is made of the best materials, by the best mechanics that can be obtained, and every one sold will sell another.

Write us for Circulars and prices.

H. F. BRAMMER MFG. CO. Dept. B DAVENPORT, IOWA

"Solid-Steel"

polished and tinned goods are splendid sellers We are also makers of the popular "Lava Enameled Ware." The trade should write us for catalogue, etc.

Cleveland Stamping & Tool Co., - - Cleveland, O.

Peoria Washing Machines.

BEST IN THE MARKET.
MADE WITH BALL-BEARINGS.

Have a Compound Lever Handle which greatly reduces the work of wash days. The motion used in vibrating the handle takes the strain from the back and lets the arms do the work with a great reduction in labor.
Send for Catalogue.
Secure the Agency.

CLARK, QUIEN & MORSE,
PEORIA, ILL.

WHY DO SO MANY BUY No. 5 FIRE POTS?

$4.50 NET.

That's a question not hard to answer. It is strong, durable, makes a powerful blue, blast flame which is intensely hot. It will quickly heat soldering coppers, melt a pot of metal, or, by taking off the top section, it can be used as a torch for thawing frozen pipes, taking soil pipe apart, etc. **We warrant it to save the user its cost in a short time in the saving of gasoline alone,** to say nothing of the many other good points it possesses. Jobbers sell at factory price, or we will ship direct upon receipt of $4.50. **Your money back if you are not pleased.** Our Catalog is free.

CLAYTON & LAMBERT MFG. CO.
DETROIT, MICH., U. S. A.

THE KIBELE CREAM SEPARATOR

Milk and water are not mixed. A combination of two cans that can be taken apart or put together in a moment's time. The most convenient separator for handling milk summer and winter. It saves all can lifting, skimming, and washing of crocks. Write me for circular and prices.

A. D. LUGIBIHL, Bluffton, Ohio.

THE SANITARY... CREAM SEPARATOR

Constructed along approved lines. Most convenient for handling milk Summer and Winter. No skimming, lifting and washing of crocks.

Separates cream from milk without dilution or mixing of water or turning a crank.

Inner can detachable.

All separators fitted with our self sealing attachment and furnished with our sanitary faucet. Send for sample at once. A quick seller Sold to one dealer in each town.

Write for prices and descriptive circulars to the

SANITARY CREAM SEPARATOR CO.
BLUFFTON, O., U. S. A.

STOVE GUARD.

Twin City Fence and Wire Works

Manufacturers of all kinds of Ornamental and Architectural Iron and Wire Work, Office Railings, Window Gaurds, etc.

Office and Salesroom:
220 East Sixth Street,
ST. PAUL, MINN.

"It is true that advertising will not put merit into poor merchandise, but good merchandise often becomes poor for the want of good advertising."

—Some Essential Oils for Advertising.

Peters Cartridges Peters Cartridges

Peters Cartridges

Loaded with KING'S Semi-Smokeless POWDER Holds the World's Records

A full line of this Ammunition for Rifle, Revolver and Pistol

AMMUNITION OF TO-DAY

A FEW OF MANY RECENT VICTORIES WON

Indoor Rifle Championship for United States, 1898, 1899, 1900, 1901.
Interstate Rifle Match, Sea Girt, N. J., 1900.
Interstate Regimental Team Match, Sea Girt, N. J., 1900.
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New Jersey Rifle Association's Trophy Match, 1900.
Winchester Match, Sea Girt, N. J., 1900.
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Ammunition Loaded With

King's Semi-Smokeless Powder

Made Highest Scores in International Revolver Match (America vs. France), 1900. Won the Wimbeldon Cup Match (30 shots at 1000 yards), 1900. The Rifle Championship for Greater New York and vicinity (100 shots at 200 yards), 1899-1900.

The above wonderful records tell the whole story of unequaled accuracy, velocity, trajectory and uniformity. **These Cartridges Never Deteriorate.** They shoot with little noise and slight smoke, and can be used for a day at a time without the necessity of cleaning the gun. **Peters Cartridges** have been tested and are now **used by the World's Experts.**

Handy Book for Shooters and Sportsmen Sent Free to all Applicants.

The Peters Cartridge Co.

EASTERN BRANCH:
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CINCINNATI, OHIO, U. S. A.

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F. B. CHAMBERLAIN, Com. Co. ST. LOUIS, MO.
CHAS. G. GRUBB, Agent, PITTSBURG, PA.

Peters Cartridges Peters Cartridges

IT KILLS

KIRK GUN CO.'S NEW SINGLE GUN

MADE FROM THE FINEST MATERIALS BY THE BEST WORKMEN

No. 80—12 Gauge, 30-inch Barrel	$8 50
No. 81—16 " 30 " "	8 50
No. 82—20 " 28 " "	8 50

WITH EJECTOR

No. 85—12 Gauge, 30-inch Barrel	$9 50
No. 86—16 " 30 " "	9 50
No. 87—20 " 28 " "	9 50

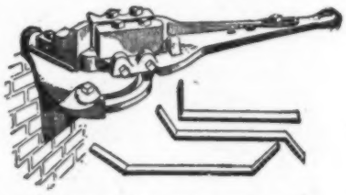
Special Terms to the Trade

FARWELL, OZMUN, KIRK & CO.

WHOLESALE HARDWARE, ST. PAUL

Hand Angle Bender

For Making Right Angles, Obtuse Angles, Acute Angles, Bias Angles, etc.



Built in two sizes. Large size will bend flat stock up to 4 inches wide by ⅜ inch, and round or square stock up to 1 inch. Better send for our booklet and investigate these labor-saving tools.
We also have **eye bending tools** and other specialties.

Wallace Supply Co.

622 Garden City Block, CHICAGO, ILL.

TACKS

TOWER M'F'G. CO.
ELM & FRONT STS.
CINCINNATI, O.
MANUFACTURERS

BIG FOUR ROUTE

CHICAGO to INDIANAPOLIS, CINCINNATI, LOUISVILLE, THE SOUTH AND SOUTHEAST

PEORIA, ST. LOUIS, INDIANAPOLIS, CINCINNATI, LOUISVILLE to **NEW YORK** AND **THE EAST**

W. P. DEPPE, A. G. P. & T. A.
W. J. LYNCH, G. P. & T. A.
CINCINNATI.

J. C. TUCKER, G. N. A., 234 Clark St., Chicago.

The "Weber Junior" Pumper

Can also be used for other power purposes.

Is all complete, ready to attach to pump. Equals 50 men pumping water. Uses but little gasolines. Is shipped crated completely erected, all connections made. Easy to start, any one can operate it. Every one guaranteed. Other sizes up to 50 H. P. Send for catalog.

Weber Gas & Gasoline Engine Co.
P. O. Box 1115B
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"ROME"

NICKEL PLATED COPPER WARE

Tea Kettles, Range Kettles, Tea and Coffee Pots, Wash Boilers, Etc.

ROME MANUFACTURING COMPANY, ROME, N. Y.

WRITE US FOR PRICES. **Address Department A.**

The right goods will bring most any business back to life. Quality is a foremost benefactor. Every piece of our Enameled Steel Ware and Tinware is stamped with our trade-mark. It infuses life. Write to nearest office for catalogues and prices.

NATIONAL ENAMELING & STAMPING CO.

NEW YORK- BALTIMORE- CHICAGO- ST. LOUIS- NEW ORLEANS- MILWAUKEE.

Formerly

When retail hardware dealers carried large stocks, the question of promptness on the part of hardware jobbers was not so vitally essential. To-day conditions are changed. The trade carry light stock as a rule, and when they send in a small order to their jobber they want the goods quickly. Delays mean annoyed, and often, lost customers. We have a splendid system for expediting orders and our customers are all pleased with our service. Try us on that small order of yours.

Lee-Glass-Andreesen Hardware Co.

OMAHA, NEBRASKA.

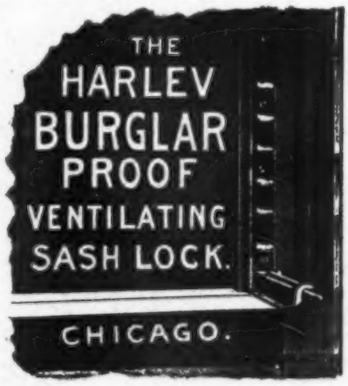
Ornamental Pipe Straps

The most perfectly cut and brightest tinned straps ever sold.

MALLEABLE AND WROUGHT HOOKS

Quality the best that can be made. Full line of valves and plungers. Ask for samples, catalog and prices.

BERGER BROS. CO., Mfrs., 231 and 237 Arch St., PHILADELPHIA.



THIS LOCK can neither be forced with a jimmy nor opened from the outside. It is as secure when set for ventilation as when closed, and in no instance has it failed to successfully resist the attack of Burglars, Porch climbers, and sneak thieves; can be put on without cutting frame or sash at moderate cost and is fully endorsed by all people who are protected by it. Send for booklet of photographed testimonials.

Send for catalogue.

Harley Burglar Proof Ventilating Sash Lock Co.

92 La Salle St., CHICAGO.

THE Peerless Flue Stopper

Steel wire springs instead of sheet iron stays.

Stays where you put it, and is absolutely soot and smoke proof.

Made either plain or decorated.

Send for miniature sample and prices.

Welling Manufacturing Co.,
COLUMBUS, O.

Clouds of Smoke

Are pouring from
IWAN'S REVOLVING CHIMNEY-TOPS
EVERY DAY

Used all over the U. S. The following and 54 other jobbers sell them:

Berger Bros. Co., Philadelphia, Pa.
Townley Metal & Hardware Co., Kansas City, Mo.
C. W. Hackett Hardware Co., St. Paul, Minn.

Write for Prices. Manufactured by

IWAN BROS., - STREATOR, ILL.

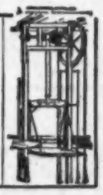
ELEVATORS

Improved, Quick and Easy Rising Steam and Hand Power.

KIMBALL BROS. CO.

1061 9th St. Council Bluffs, Iowa

OMAHA BRANCH, 108-110-112 N. 11th St.



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On FIRST and THIRD TUESDAYS in each Month to **VIRGINIA**

Via NORFOLK & WESTERN RAILWAY

For all information as to Rates and Tickets and for LAND PAMPHLETS and descriptive matter, address

ALLEN HULL, D. P. Agt., Columbus, Ohio

SPERRY'S CALDRONS....

Full measure, guaranteed perfect, original patterns, with metal distributed where it is needed. Many Caldrons are made from our castings as patterns. They are inferior to original, as they have light bottoms and heavy sides and hold less.

D. R. SPERRY & CO.,
HOLLOW-WARE FOUNDERS,
BATAVIA, ILL.

TWELVE SIZES ALWAYS IN STOCK.

A STUDY THAT PAYS

It will pay you to study the merits of our Metal Slates, the cheapest fire, snow, rain and sleet proof roofing in existence.

Illustrated Booklet FREE

CORTRIGHT METAL ROOFING CO.
PHILADELPHIA and CHICAGO.

Measuring Tapes

Steel, Metallic, Linen, etc. Our Goods are Recognized as the Best. Tinners' Rules, Magic Pattern Rules, etc. Send for Catalogue and Mention The American Artisan.

Lufkin Rule Co.

SAGINAW, MICH.

Don't Be Deceived but insist on

McClure's Genuine Charcoal Iron Redipped Roofing Tin.

McCLURE & CO.,
Manufacturers of Tin Plate.

PITTSBURGH, PA., 211, 213 & 215 Second Ave.
PHILADELPHIA, PA. 115 North 7th Street.

THE "CENTENNIAL" Rain-Water Cut-Off

The strongest, most durable, and cheapest CUT-OFF on the market.

The only single Cut-Off made to fit CORRUGATED and Plain Pipe and which can be used without extra pipe or elbows. For sale by all leading jobbers. Patent applied for.

Manufactured only by **Cooney & Geiger,** 19 and 21 E. South St., INDIANAPOLIS, INDIANA.

"PULLMAN"

Sash Balances

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